PHILIPS 28ST1814

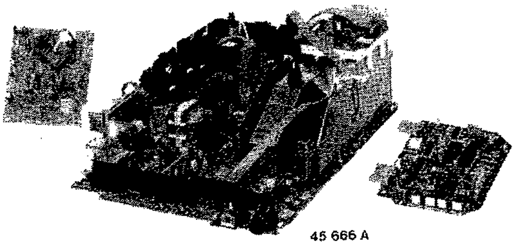
MODEL

SERVICE MANUAL

Colour television Chassis GR2.1

AA

Service
Service
Service



Service Manual

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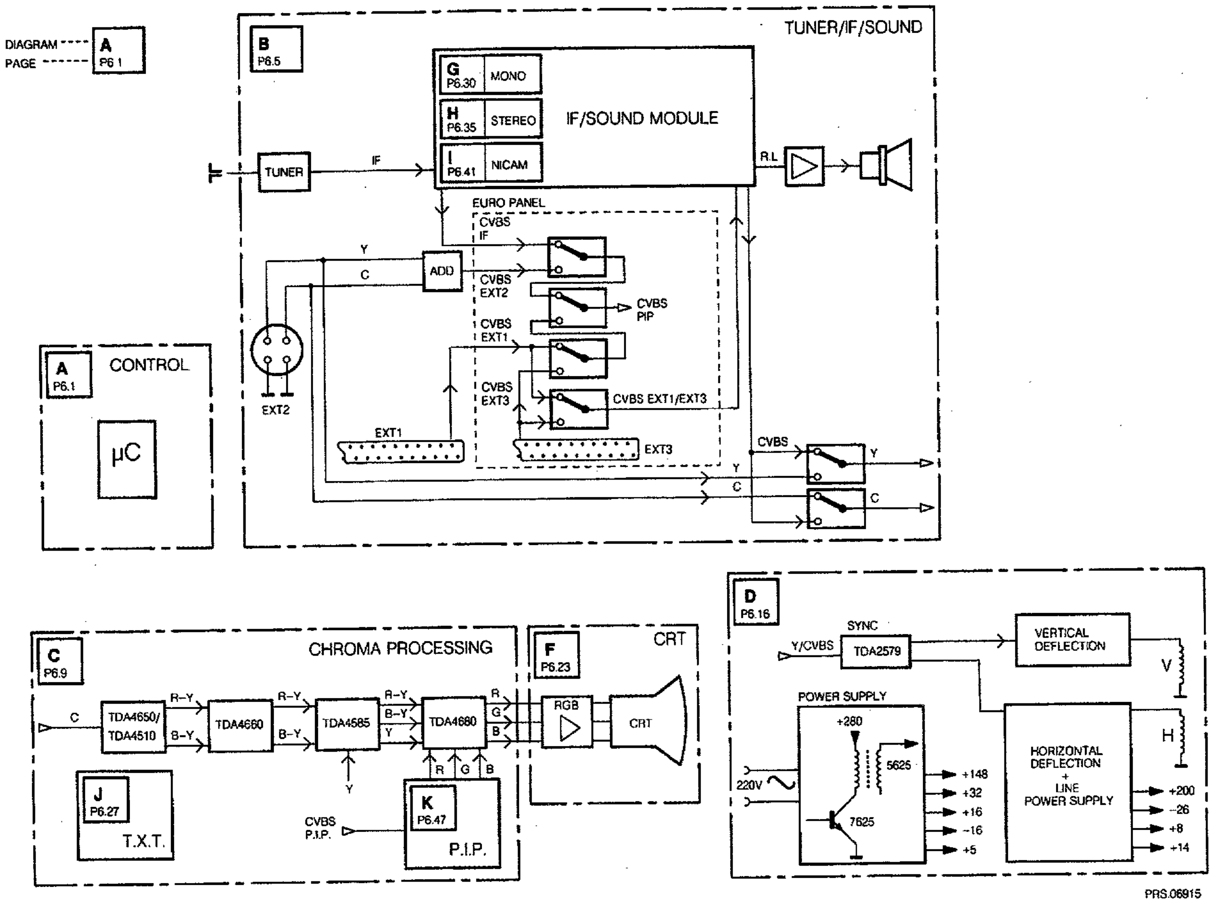
GB 4822 727 18334

Block diagram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IF
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CVBS
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Y
C
ADD
CVBS
EXT2
CVBS
PIP
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EXT1
CVBS
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C
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CHROMA PROCESSING
C
TDA4650/
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R−Y
B−Y
TDA4660
R−Y
B−Y
TDA4585
R−Y
B−Y
Y
TDA4680
R
G
B
J
P6.27
T.X.T.
CVBS
P.I.P.
K
P6.47
P.I.P.
F
P6.23
CRT
RGB
CRT
D
P6.16
SYNC
Y/CVBS
TDA2579
VERTICAL DEFLECTION
V
POWER SUPPLY
+280
5625
7625
220V
+148
+32
+16
−16
+5
H
HORIZONTAL DEFLECTION + LINE POWER SUPPLY
+200
−26
+8
+14

PRS.06915
T-26/106

Technical data

Mains voltage : 220 - 240 V (±10%)
Mains frequency : 50 Hz (± 10%)
Aerial input impedance : 75Ω - coax
Minimum aerial voltage : 40μV
Maximum aerial voltage : 32mV
Pull-in range colour synchronization : ±300Hz
Pull-in range horizontal synchronization : ±300Hz

Local operation functions:

P +; P -; ⊿+; ⊿−; install

Programmes: 0-59
VCR operation on programmes: 0-59

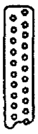
Indications:

- On Screen Display (OSD)
- LED: - standby (red)
  - operation (green)
  - RC5 reception (flashing yellow)
  - internal fault in μP (flashing)

Connection facilities

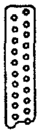
1. Specification of the terminal sockets

EXT1



1 – Audio ⊖→ R (0.5 V_{RMS}; ≤ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 V_{nom}.; ≥ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ≤ 1 kΩ)
4 – Audio ⊥
5 – Blue ⊥
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 V_{nom}.; ≥ 10 kΩ)
7 – Blue →⊖ (0.7 V_{pp}; 75 Ω)
8 – RC5 ⊖→ (500-800 mV_{pp}) + CVBS status 1 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – Green ⊥
10 – –
11 – Green →⊖ (0.7 V_{pp}; 75 Ω)
12 – –
13 – Red ⊥
14 – –
15 – Red →⊖ (0.7 V_{pp}; 75 Ω)
16 – RGB status →⊖ (0-0.4 V: int.; 1-3 V: ext.; 75 Ω)
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

EXT3



1 – Audio ⊖→ R (0.5 V_{RMS}; ≤ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 V_{nom}.; ≥ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ≤ 1 kΩ)
4 – Audio ⊥
5 – –
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 V_{nom}.; ≥ 10 kΩ)
7 – –
8 – CVBS status 3 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – –
10 – –
11 – –
12 – –
13 – –
14 – –
15 – –
16 – –
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

EXT2

1 – ⊥
2 – ⊥
3 – Y →⊖ (1 V_{pp}; 75 Ω)
4 – C →⊖ (1 V_{pp}; 75 Ω)

2x ◎ CINCH Audio →⊖ L + R (0.2-2 V_{RMS}; 0.5 V_{nom}.; ≥ 10 kΩ)

Audio out

2x ◎ CINCH Audio ⊖→ L + R (0.5 V_{RMS}; ≤ 1 kΩ)

Front

◎ 🔈/🎧 3,5 mm
6.3mm
≥ 8 Ω

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.1 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

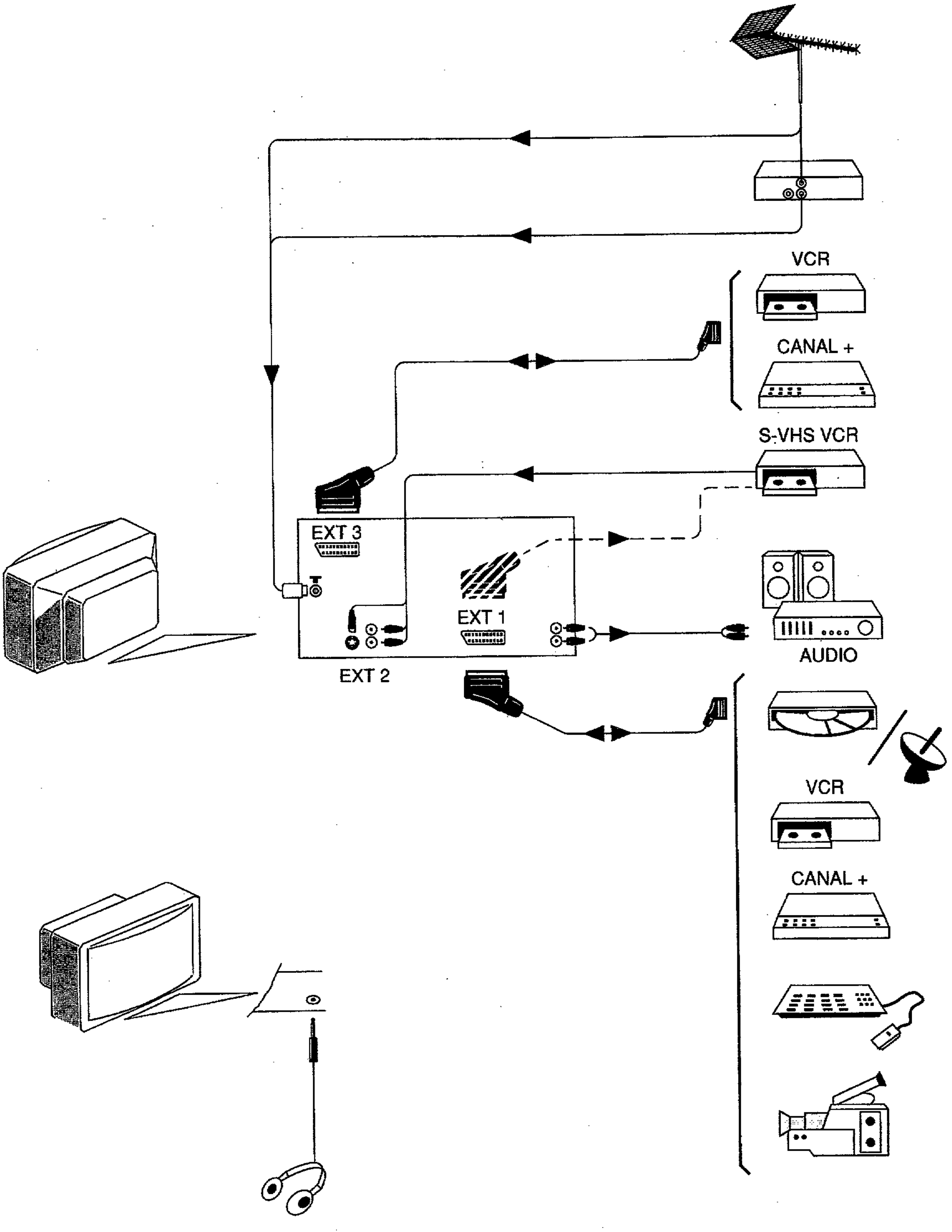


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ▲.
2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).
3. **ESD** ▲
   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.
4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.
5. Be careful when taking measurements in the high-voltage section and on the picture tube.
6. Never replace modules or other components while the unit is switched on.
7. It is recommended that safety goggles are worn when replacing the picture tube.
8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.
9. After repair the wiring should be fastened once more in the cable clamps for this purpose.
10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
    The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.
11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.
12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⊥), or hot earth (⊥ ⚡) as this is called.
2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).
3. Where necessary, the oscillograms and direct voltages are measured with (⌉⌈) and without aerial signal (⌉⌈̸). Voltages in the power supply section are measured both for normal operation (Ⓘ) and in standby (⏻). These values are indicated by means of the appropriate symbols.
4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.
5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.
7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
   The order numbers of these extension cards are:
   * 6 times: 4822 395 30259
   * 8 times: 4822 214 31402
8. Both multisystem and single system units are discussed in this documentation.
   The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
   The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).
9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

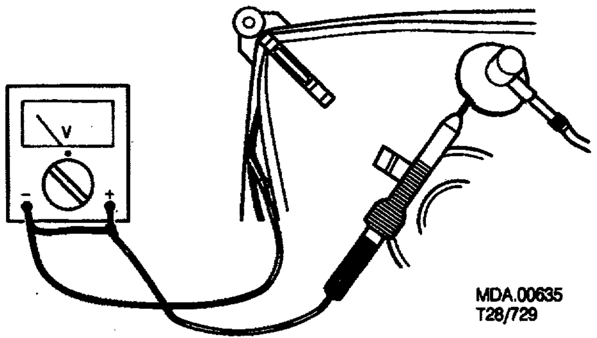


Fig. 3.1

Mechanical instructions

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath **and possibly under the EXT 3 connection** (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

2. Service position 1

Service position for module service and to measure test points
Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair
Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!

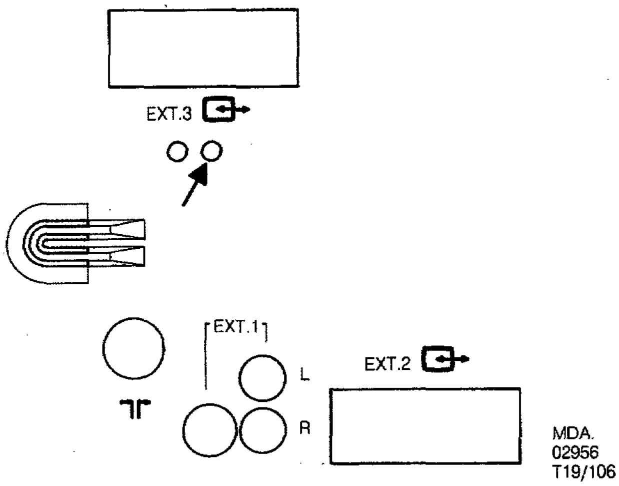


Fig. 4.1

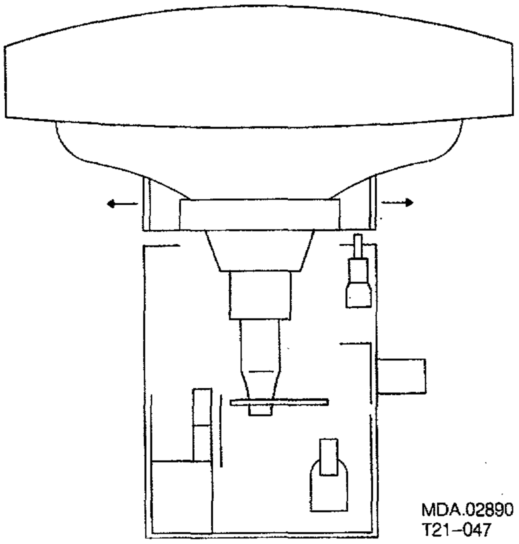


Fig. 4.2

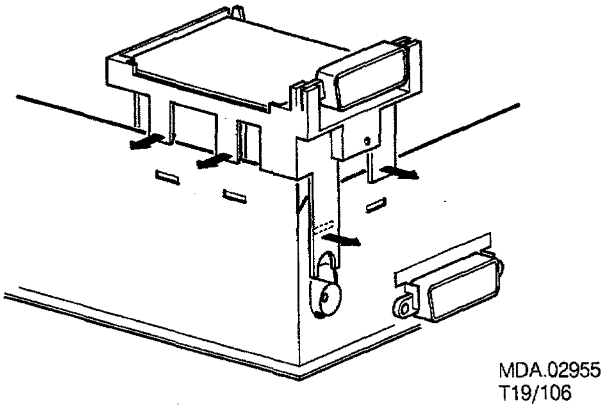


Fig. 4.3

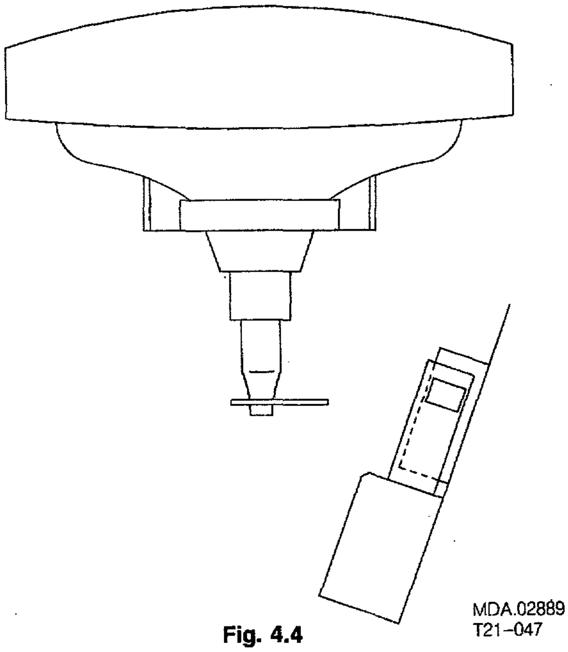
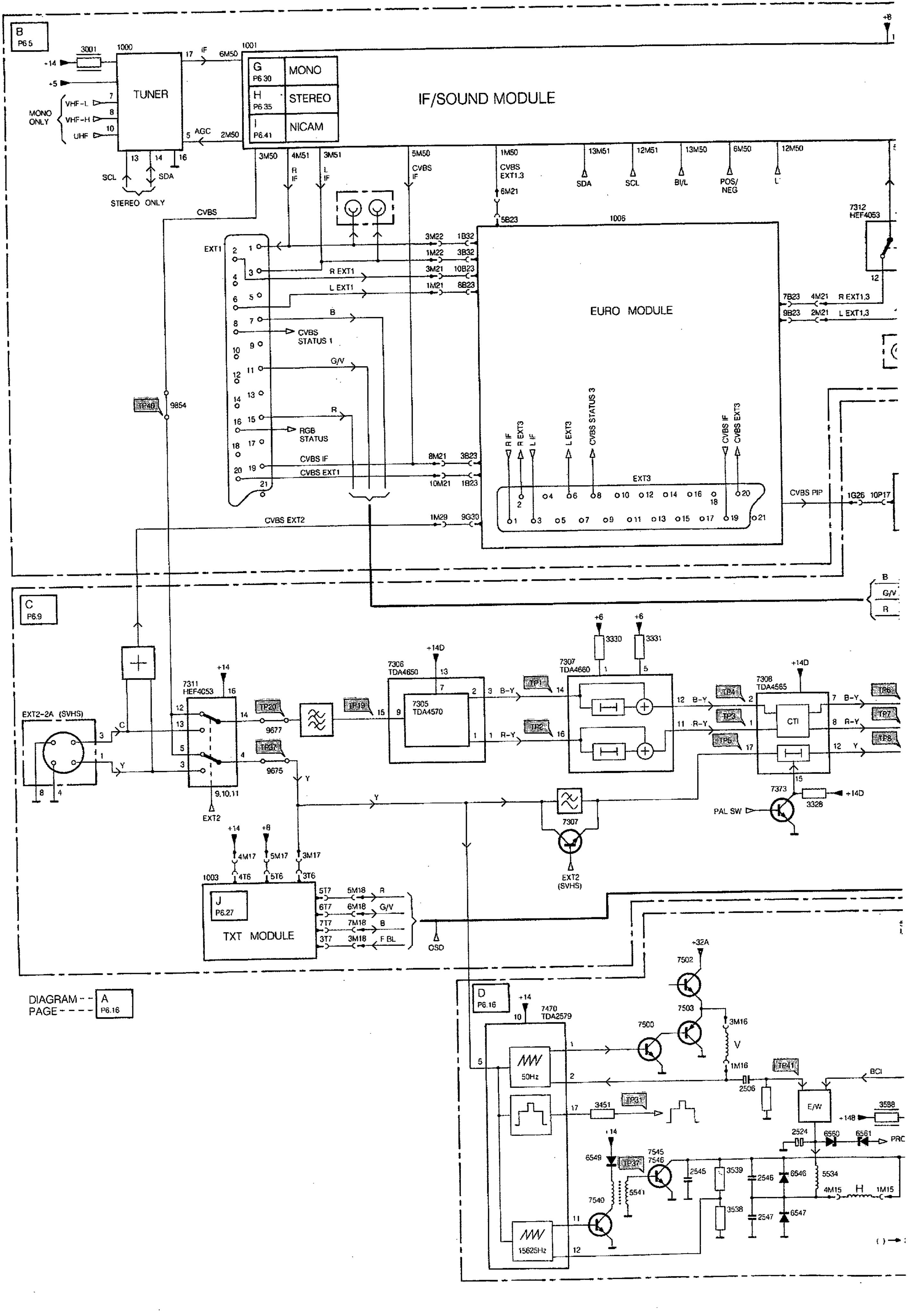
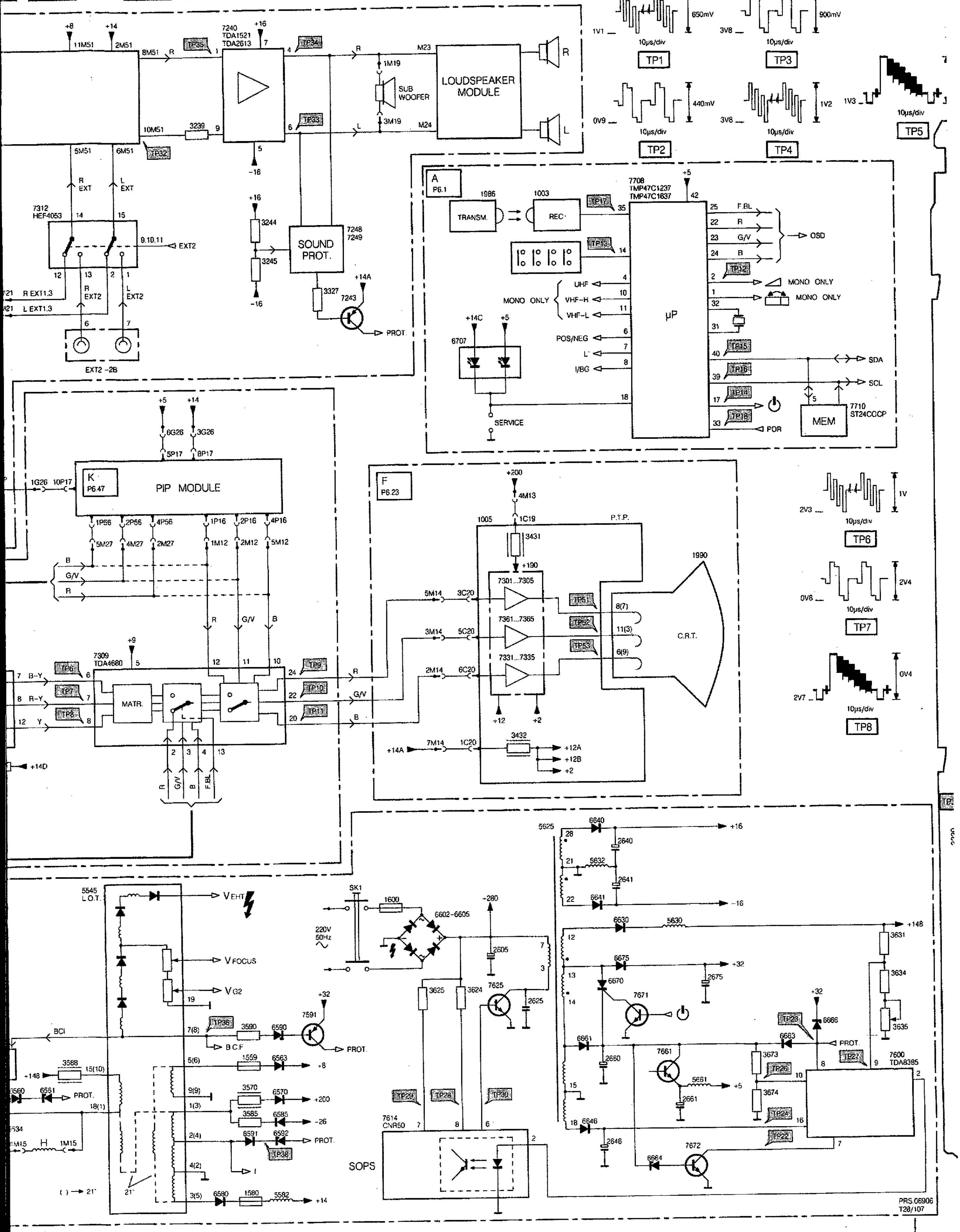
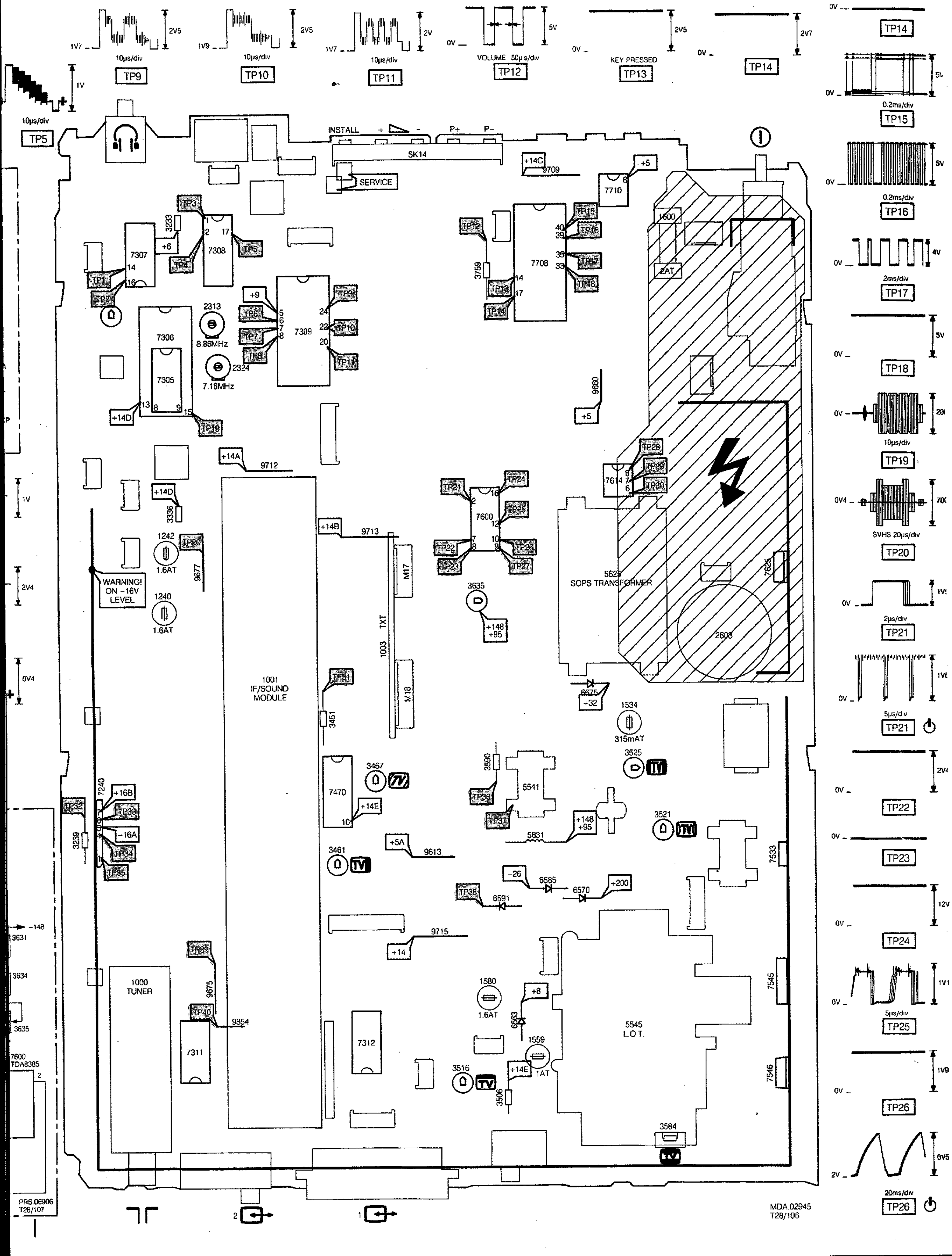


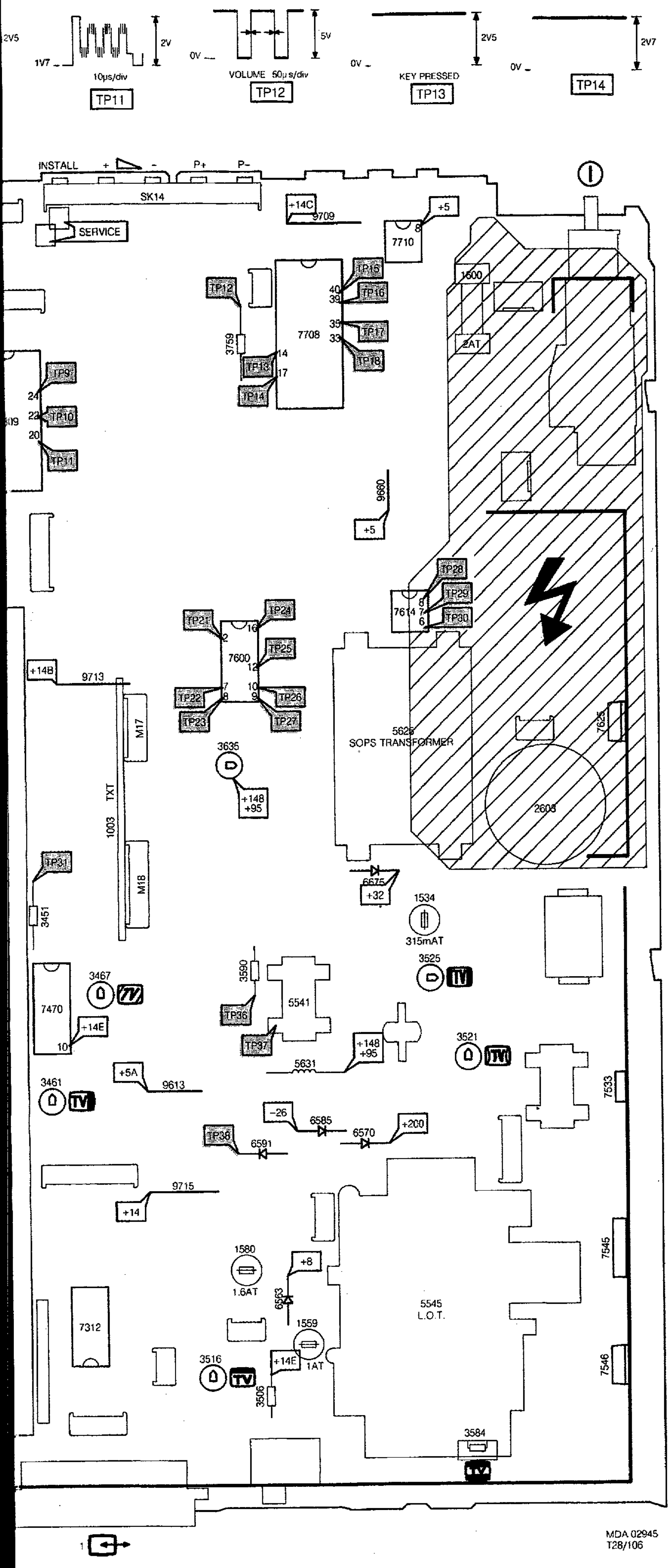
Fig. 4.4

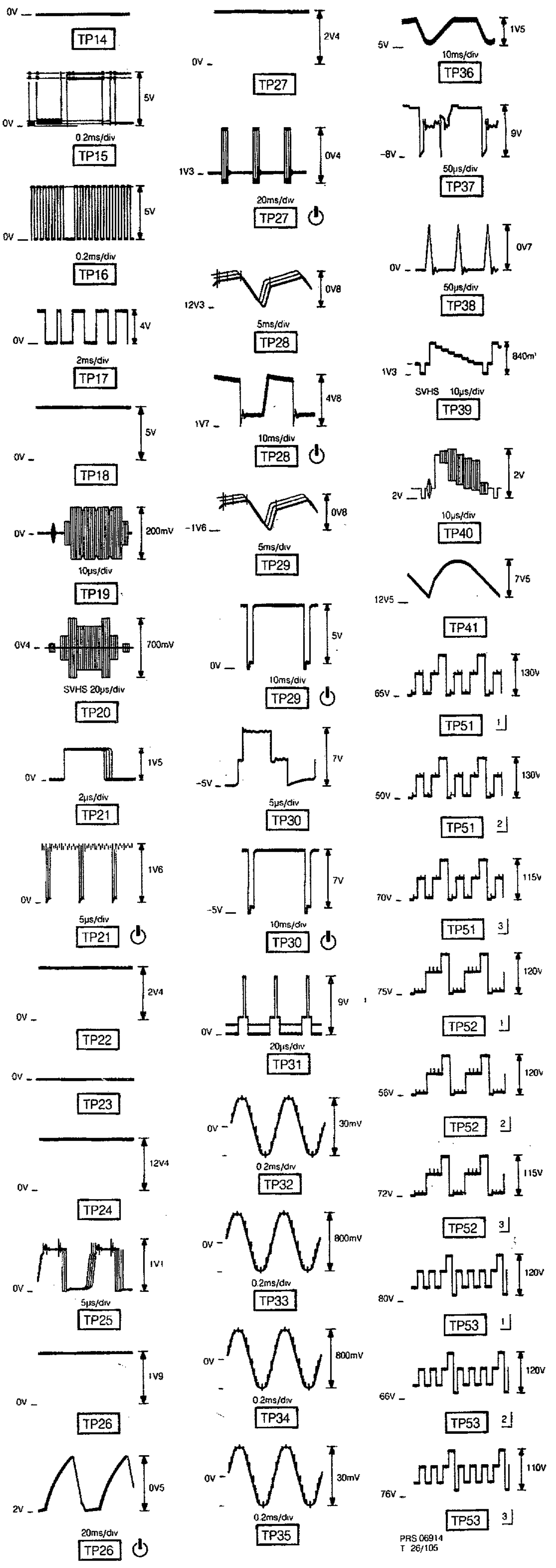
Blockdiagram / Blockschaltbild / Schéma-bloc


B
P6.5
3001
1000
TUNER
+14
+5
MONO ONLY
VHF-L
VHF-H
UHF
SCL
SDA
STEREO ONLY
17
IF
6M50
AGC
2M50
1001
G
P6.30
MONO
H
P6.35
STEREO
I
P6.41
NICAM
IF/SOUND MODULE
3M50
4M51
3M51
5M50
1M50
13M51
12M51
13M50
6M50
12M50
R IF
L IF
CVBS IF
CVBS EXT1,3
6M21
5B23
SDA
SCL
BI/L
POS/ NEG
L
+8
7312
HEF4053
CVBS
EXT1
3M22
1B32
1M22
3B32
R EXT1
3M21
10B23
L EXT1
1M21
8B23
B
CVBS STATUS 1
G/V
R
RGB STATUS
CVBS IF
8M21
3B23
CVBS EXT1
10M21
1B23
CVBS EXT2
1M29
9G30
1006
EURO MODULE
R IF
R EXT3
L IF
L EXT3
CVBS STATUS 3
CVBS IF
CVBS EXT3
EXT3
7B23
4M21
R EXT1,3
9B23
2M21
L EXT1,3
CVBS PIP
1G26
10P17
TP40
9854
C
P6.9
EXT2-2A (SVHS)
C
Y
7311
HEF4053
+14
EXT2
9,10,11
TP20
9677
TP37
9675
TP19
7306
TDA4650
+14D
7305
TDA4570
B-Y
R-Y
TP1
TP2
7307
TDA4660
+6
3330
3331
TP4
TP5
TP6
7308
TDA4565
CTI
TP6
TP7
TP8
B-Y
R-Y
Y
7373
3328
+14D
PAL SW
7307
EXT2 (SVHS)
+14
+8
4M17
5M17
3M17
1003
4T6
5T6
3T6
J
P6.27
TXT MODULE
5T7
5M18
R
6T7
6M18
G/V
7T7
7M18
B
3T7
3M18
F BL
OSD
B
G/V
R
DIAGRAM
PAGE
A
P6.16
D
P6.16
+14
7470
TDA2579
50Hz
15625Hz
+32A
7502
7503
7500
3M16
V
1M16
TP41
2506
BCI
E/W
3451
TP31
+148
3598
2524
6560
6561
PRC
+14
6549
TP37
7545
7546
2545
3539
2546
6546
5534
5541
7540
3538
2547
6547
4M15
H
1M15

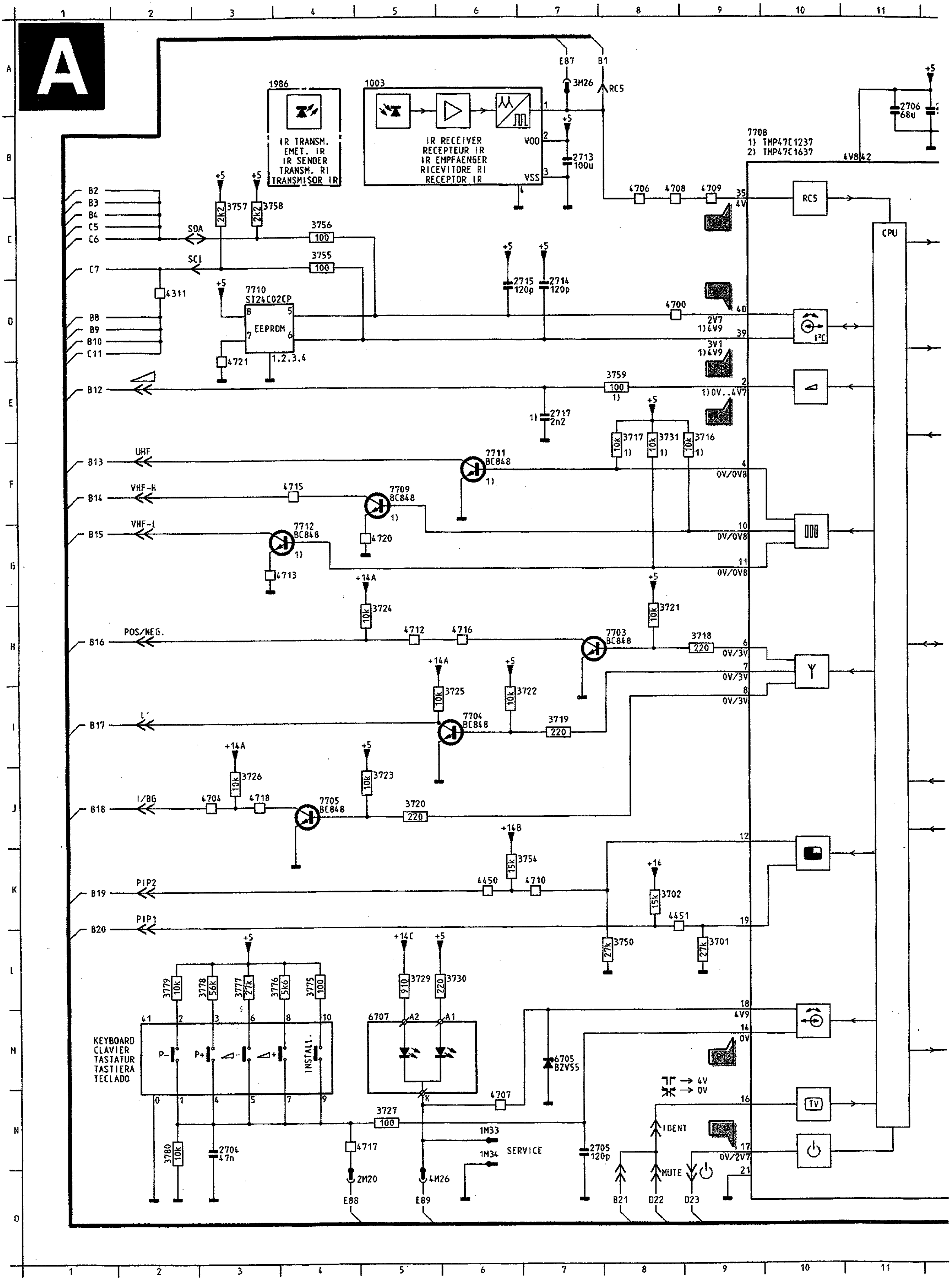

TP1
650mV
1V1
10μs/div
TP3
900mV
3V8
10μs/div
TP2
440mV
0V9
10μs/div
TP4
1V2
3V8
10μs/div
TP5
1V3
10μs/div
TP6
1V
2V3
10μs/div
TP7
2V4
0V8
10μs/div
TP8
0V4
2V7
10μs/div
7240
TDA1521
TDA2613
+8
+14
+16
11M51
2M51
8M51
10M51
5M51
6M51
3239
TP35
TP34
TP33
TP32
M23
M24
1M19
3M19
SUB WOOFER
LOUDSPEAKER MODULE
R
L
-16
R EXT
L EXT
7312
HEF4053
9,10,11
EXT2
R EXT1,3
L EXT1,3
R EXT2
L EXT2
EXT2 -26
3244
3245
SOUND PROT.
7248
7249
3327
7243
+14A
PROT.
A
P6.1
1986
1003
TRANSM.
REC.
TP17
TP13
7708
TMP47C1237
TMP47C1637
+5
F.BL
G/V
B
OSD
TP12
MONO ONLY
UHF
VHF-H
VHF-L
μP
POS/NEG
I/BG
TP15
TP16
TP14
TP18
SDA
SCL
MEM
7710
ST24CCCP
POR
6707
+14C
SERVICE
+5
+14
6G26
3G26
5P17
8P17
K
P6.47
PIP MODULE
1G26
10P17
1P56
2P56
4P56
1P16
2P16
4P16
5M27
4M27
2M27
1M12
2M12
5M12
7309
TDA4680
+9
B-Y
R-Y
Y
TP6
TP7
TP8
MATR.
TP9
TP10
TP11
+14D
F.BL
F
P6.23
+200
4M13
1C19
1005
P.T.P.
3431
+190
7301...7305
7361...7365
7331...7335
5M14
3C20
3M14
5C20
2M14
6C20
TP51
TP52
TP53
8(7)
11(3)
6(9)
1990
C.R.T.
+12
+2
+14A
7M14
1C20
3432
+12A
+12B
5545
L.O.T.
VEHT
VFOCUS
VG2
BCI
TP36
3590
6590
7591
+32
PROT.
B.C.F.
+148
3588
1559
6563
+8
3570
6570
+200
3585
6585
-26
6591
6592
TP38
6560
6561
1M15
H
6580
1580
5582
+14
SK1
1600
220V 50Hz
6602-6605
-280
2605
3625
3624
7625
2625
TP29
TP28
TP30
7614
CNR50
SOPS
5625
6640
2640
+16
5632
2641
6641
-16
6630
5630
+148
3631
6675
+32
2675
6670
7671
3634
3635
6661
2660
7661
5661
+5
2661
6663
6666
TP23
PROT.
TP27
3673
TP26
3674
TP24
7600
TDA8385
6646
2646
6664
7672
TP22
PRS.06906
T28/107


TP5
1V
10µs/div
TP9
1V7
2V5
10µs/div
TP10
1V9
2V5
10µs/div
TP11
1V7
2V
10µs/div
TP12
0V
5V
VOLUME 50µs/div
TP13
0V
2V5
KEY PRESSED
TP14
0V
2V7
TP14
TP15
0V
5V
0.2ms/div
TP16
0V
5V
0.2ms/div
TP17
0V
4V
2ms/div
TP18
0V
5V
TP19
0V
10µs/div
TP20
0V4
SVHS 20µs/div
TP21
0V
1V
2µs/div
TP21
0V
5µs/div
TP22
0V
2V4
TP23
0V
TP24
0V
12V
TP25
0V
5µs/div
TP26
0V
1V9
TP26
2V
0V5
20ms/div
INSTALL
P+
P–
SK14
SERVICE
+14C
9709
+5
7710
7708
TP3
TP4
TP5
TP1
TP2
7307
7308
3233
+6
+9
TP6
TP7
TP8
7309
TP9
TP10
TP11
2313
8.86MHz
2324
7.16MHz
7306
7305
+14D
TP19
TP12
TP13
TP14
3759
TP15
TP16
TP17
TP18
1600
2AT
9660
+5
+14A
9712
+14D
3336
1242
1.6AT
TP20
9677
1240
1.6AT
WARNING! ON –16V LEVEL
1001 IF/SOUND MODULE
+14B
9713
M17
TXT
1003
M18
TP21
TP22
TP23
TP24
TP25
TP26
TP27
7600
3635
+148 +95
TP28
TP29
TP30
7614
5625 SOPS TRANSFORMER
7625
2608
6675
+32
1534
315mAT
3525
TP31
3451
7470
3467
+14E
3590
TP36
TP37
5541
5631
+148 +95
3521
7533
7240
+16B
TP32
TP33
–16A
TP34
TP35
3239
3461
+5A
9613
–26
6585
6570
+200
TP38
6591
9715
+14
TP39
9675
TP40
9854
1000 TUNER
7311
7312
1580
1.6AT
+8
6563
1559
1AT
3516
+14E
3506
5545 L.O.T.
7545
7546
3584
+148
3631
3634
3635
7600 TDA8385
PRS.06906 T28/107
MDA.02945 T28/106

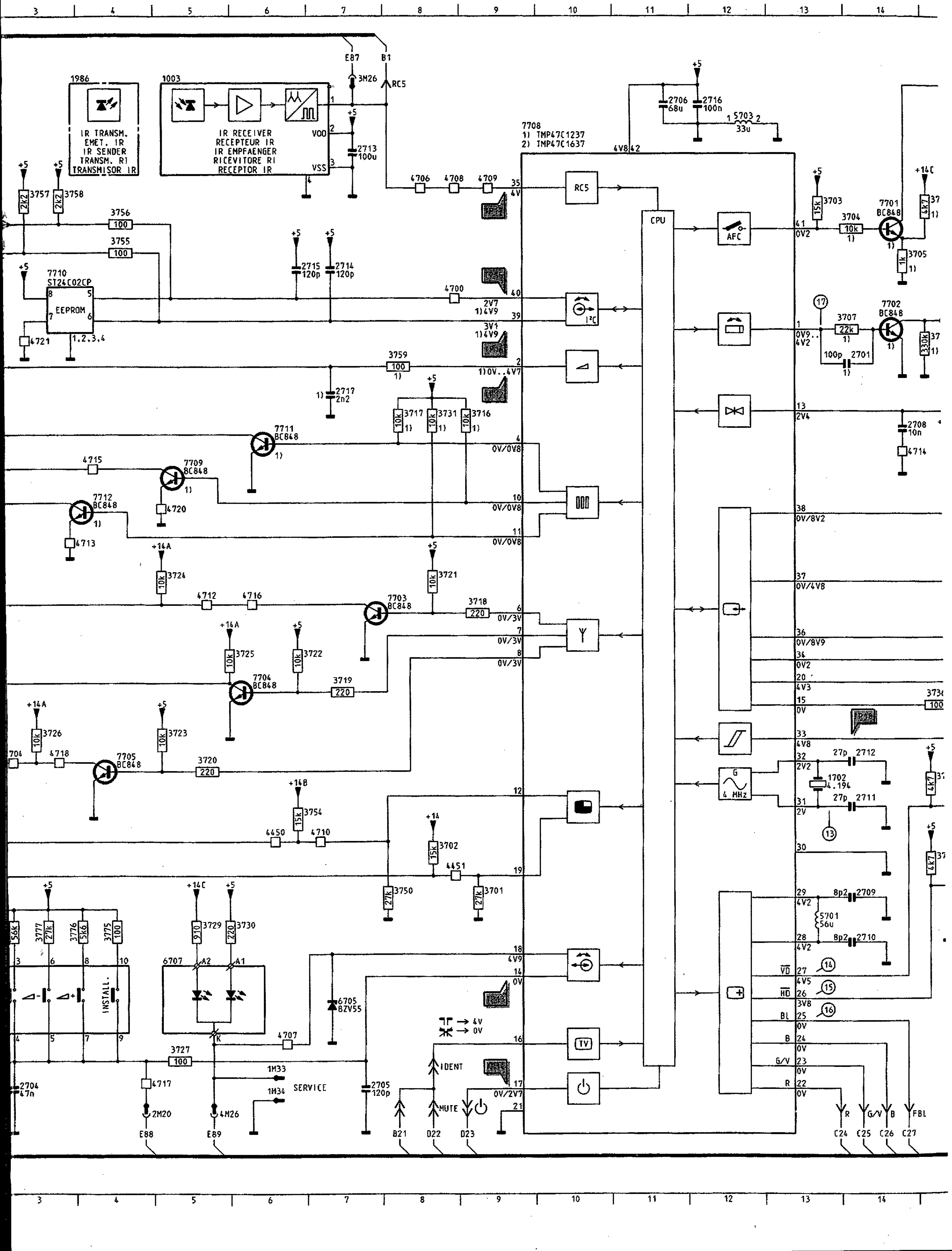

2V5
1V7
2V
10µs/div
TP11
0V
5V
VOLUME 50µs/div
TP12
0V
2V5
KEY PRESSED
TP13
0V
2V7
TP14
INSTALL
+
-
P+
P-
SK14
SERVICE
+14C
9709
+5
7710
1500
2AT
TP12
TP15
TP16
TP17
TP18
7708
40
39
35
33
14
17
3759
TP13
TP14
TP9
TP10
TP11
24
22
20
9660
+5
TP28
TP29
TP30
7614
8
7
6
TP21
TP24
TP25
TP22
TP23
TP26
TP27
7600
2
16
12
7
8
10
9
+14B
9713
M17
TXT
1003
M18
3635
+148
+95
5625
SOPS TRANSFORMER
7625
2603
6675
+32
1534
315mAT
TP31
3451
7470
3467
+14E
10
3525
3590
5541
TP36
TP37
+148
+95
5631
3521
+5A
9613
3461
7533
-26
6585
6570
+200
TP38
6591
9715
+14
1580
1.6AT
+8
6563
5545
L.O.T.
7545
7312
1559
1AT
3516
+14E
3506
7546
3584
1
MDA 02945
T28/106


0V
TP14
0V
5V
0.2ms/div
TP15
0V
5V
0.2ms/div
TP16
0V
4V
2ms/div
TP17
0V
5V
TP18
0V
200mV
10µs/div
TP19
0V4
700mV
SVHS 20µs/div
TP20
0V
1V5
2µs/div
TP21
0V
1V6
5µs/div
TP21
0V
2V4
TP22
0V
TP23
0V
12V4
TP24
0V
1V1
5µs/div
TP25
0V
1V9
TP26
2V
0V5
20ms/div
TP26
0V
2V4
TP27
1V3
0V4
20ms/div
TP27
12V3
0V8
5ms/div
TP28
1V7
4V8
10ms/div
TP28
-1V6
0V8
5ms/div
TP29
0V
5V
10ms/div
TP29
-5V
7V
5µs/div
TP30
-5V
7V
10ms/div
TP30
0V
9V
20µs/div
TP31
0V
30mV
0.2ms/div
TP32
0V
800mV
0.2ms/div
TP33
0V
800mV
0.2ms/div
TP34
0V
30mV
0.2ms/div
TP35
5V
1V5
10ms/div
TP36
-8V
9V
50µs/div
TP37
0V
0V7
50µs/div
TP38
1V3
840m
SVHS 10µs/div
TP39
2V
2V
10µs/div
TP40
12V5
7V5
TP41
65V
130V
TP51 1
50V
130V
TP51 2
70V
115V
TP51 3
75V
120V
TP52 1
56V
120V
TP52 2
72V
115V
TP52 3
80V
120V
TP53 1
66V
120V
TP53 2
76V
110V
TP53 3
PRS 06914
T 26/105

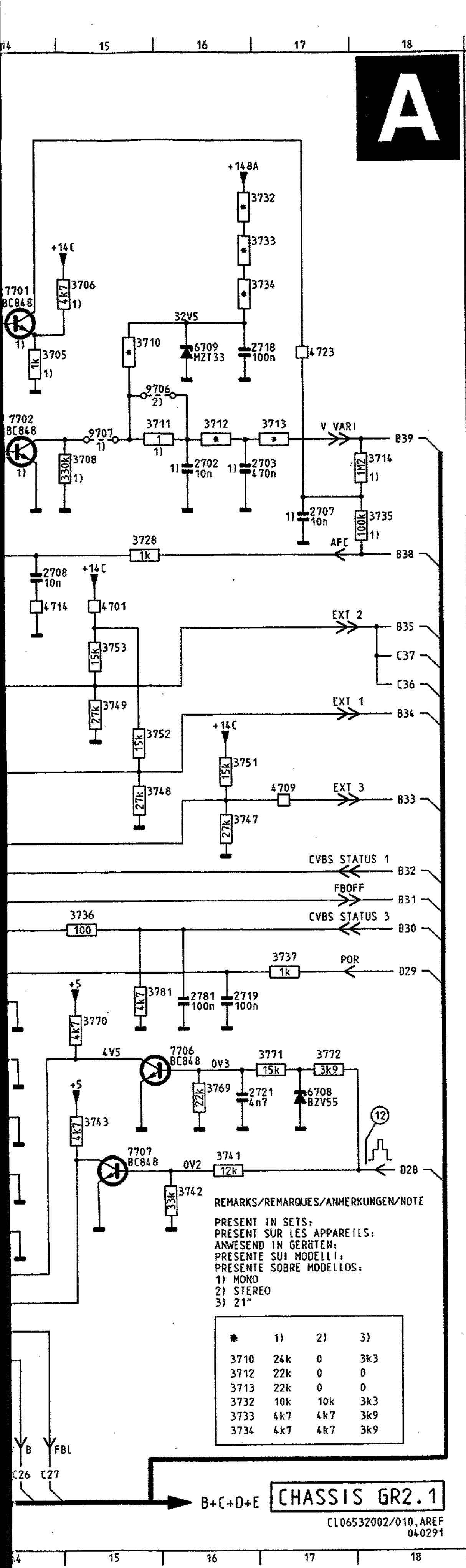
Controls / Bedienung / La C


A
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O
1986
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
1003
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE IR
RECEPTOR IR
VDD
VSS
E87
3M26
B1
RC5
+5
2713
100u
2706
68u
7708
1) TMP47C1237
2) TMP47C1637
4V8
42
B2
B3
B4
C5
C6
SDA
C7
SCL
4311
B8
B9
B10
C11
3757
2k2
3758
2k2
3756
100
3755
100
7710
ST24C02CP
EEPROM
4721
1,2,3,4
2715
120p
2714
120p
4706
4708
4709
35
4V
RC5
CPU
4700
40
2V7
1)4V9
39
3V1
1)4V9
I²C
B12
3759
100
1)
2
1)0V..4V7
2717
2n2
3717
10k
3731
10k
3716
10k
B13
UHF
7711
BC848
4
0V/0V8
B14
VHF-H
4715
7709
BC848
4720
10
0V/0V8
B15
VHF-L
7712
BC848
4713
11
0V/0V8
+14A
3724
10k
3721
10k
B16
POS/NEG.
4712
4716
7703
BC848
3718
220
6
0V/3V
7
0V/3V
8
0V/3V
3725
10k
3722
10k
B17
L'
7704
BC848
3719
220
+14A
3726
10k
3723
10k
B18
I/BG
4704
4718
7705
BC848
3720
220
+14B
3754
15k
12
B19
PIP2
4450
4710
+16
3702
15k
4451
B20
PIP1
19
3750
27k
3701
27k
3779
10k
3778
56k
3777
27k
3776
5k6
3775
100
41 2 3 6 8 10
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
P-
P+
INSTALL.
0 1 4 5 7 9
+14C
3729
910
3730
220
6707
A2
A1
K
4707
6705
BZV55
18
4V9
14
0V
16
TV
→ 4V
→ 0V
IDENT
3727
100
1M33
1M34
SERVICE
3780
10k
2704
47n
4717
2M20
E88
4M26
E89
2705
120p
B21
MUTE
D22
D23
17
0V/2V7
21

Controls / Bedienung / La Commande


3
4
5
6
7
8
9
10
11
12
13
14
E87
B1
3M26
RC5
1986
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
1003
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
VDD
VSS
2713
100u
+5
3757
2k2
3758
2k2
3756
100
3755
100
2715
120p
2714
120p
7710
ST24C02CP
EEPROM
4721
1,2,3,4
4706
4708
4709
4700
7708
1) TMP47C1237
2) TMP47C1637
2706
68u
2716
100n
5703
33u
4V8
42
35
4V
RC5
CPU
40
2V7
1)4V9
39
3V1
1)4V9
I²C
3759
100
2
1)0V..4V7
2717
2n2
AFC
3703
15k
3704
10k
7701
BC848
3705
1k
+14C
4k7
41
0V2
1
0V9..
4V2
3707
22k
7702
BC848
100p
2701
330k
13
2V4
2708
10n
4714
3717
10k
3731
10k
3716
10k
7711
BC848
4
0V/0V8
4715
7709
BC848
4720
7712
BC848
4713
10
0V/0V8
11
0V/0V8
38
0V/8V2
37
0V/4V8
36
0V/8V9
34
0V2
20
4V3
15
0V
+14A
3724
10k
4712
4716
3721
10k
7703
BC848
3718
220
6
0V/3V
7
0V/3V
8
0V/3V
3725
10k
3722
10k
7704
BC848
3719
220
3726
10k
4718
704
3723
10k
7705
BC848
3720
220
33
4V8
32
2V2
27p
2712
1702
4.194
G
4 MHz
31
2V
27p
2711
+14B
3754
15k
4450
4710
12
+14
3702
15k
4451
19
3750
27k
3701
27k
30
29
4V2
8p2
2709
5701
56u
28
4V2
8p2
2710
3777
27k
3776
5k6
3775
100
56k
INSTALL.
+14C
3729
910
3730
220
6707
A2
A1
K
18
4V9
14
0V
6705
BZV55
VD
27
4V5
HD
26
3V8
BL
25
0V
B
24
0V
G/V
23
0V
R
22
0V
3727
100
4707
4717
2M20
E88
4M26
E89
1M33
1M34
SERVICE
2704
47n
2705
120p
→ 4V
→ 0V
IDENT
MUTE
16
TV
17
0V/2V7
21
B21
D22
D23
R
G/V
B
FBL
C24
C25
C26
C27
373
100
4k7

Loudspeaker module
Lautsprecher-Platte
Module haut parleur

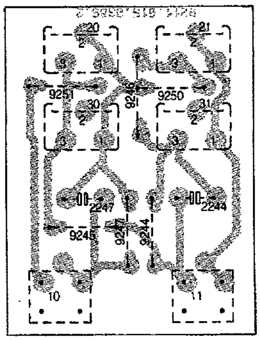

A
14
15
16
17
18
+14C
7701
BC848
3706
4k7
1)
3705
1k
+148A
3732
3733
3734
32V5
3710
6709
MZT33
2718
100n
4723
9706
2)
7702
BC848
9707
3711
3712
3713
V VARI
B39
3708
330k
2702
10n
2703
470n
3714
1M2
2707
10n
3735
100k
3728
1k
AFC
B38
2708
10n
4714
4701
3753
15k
EXT 2
B35
C37
C36
3749
27k
EXT 1
B34
3752
3751
3748
4709
EXT 3
B33
3747
CVBS STATUS 1
B32
FBOFF
B31
3736
100
CVBS STATUS 3
B30
3737
POR
D29
+5
3781
2781
100n
2719
100n
3770
7706
BC848
4V5
0V3
3771
15k
3772
3k9
3769
22k
2721
4n7
6708
BZV55
12
3743
7707
BC848
0V2
3741
12k
D28
3742
33k
B
FBL
C26
C27
B+C+D+E
CHASSIS GR2.1
CL06532002/010.AREF
040291

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

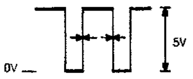
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) MONO
2) STEREO
3) 21"

*	1)	2)	3)
3710	24k	0	3k3
3712	22k	0	0
3713	22k	0	0
3732	10k	10k	3k3
3733	4k7	4k7	3k9
3734	4k7	4k7	3k9

1003	A 5	7703	H 8
1702	J13	7704	I 6
1986	A 3	7705	J 4
2701	E14	7706	K16
2702	E16	7707	L15
2703	E17	7708	B 9
2704	N 3	7709	F 5
2705	N 7	7710	D 3
2706	A11	7711	F 6
2707	E17	7712	G 4
2708	F14	9706	D16
2709	L14	9707	D15
2710	L14		
2711	K14		
2712	J14		
2713	B 7		
2714	D 7		
2715	D 6		
2716	A12		
2717	E 7		
2718	C17		
2719	J16		
2721	K16		
2781	J16		
3701	L 9		
3702	K 8		
3703	C13		
3704	C14		
3705	C14		
3706	C15		
3707	D14		
3708	D15		
3710	C15		
3711	D16		
3712	D16		
3713	D17		
3714	D18		
3716	E 9		
3717	E 8		
3718	H 9		
3719	I 7		
3720	J 5		
3721	H 8		
3722	I 6		
3723	J 5		
3724	H 5		
3725	I 6		
3726	J 3		
3727	N 5		
3728	E15		
3729	L 5		
3730	L 6		
3731	E 8		
3732	B17		
3733	B17		
3734	C17		
3735	E18		
3736	I15		
3737	J17		
3741	L16		
3742	L16		
3743	K15		
3747	H16		
3748	H15		
3749	G15		
3750	L 8		
3751	H16		
3752	G15		
3753	F15		
3754	K 6		
3755	C 4		
3756	C 4		
3757	C 3		
3758	C 3		
3759	E 8		
3769	K16		
3770	J15		
3771	K17		
3772	K17		
3775	L 4		
3776	L 4		
3777	L 3		
3778	L 3		
3779	L 3		
3780	N 3		
3781	J15		
4104	M 2		
4311	D 2		
4450	K 6		
4451	K 8		
4700	D 8		
4701	F15		
4704	J 3		
4706	C 8		
4707	N 6		
4708	C 8		
4709	C 9		
4710	K 7		
4712	H 5		
4713	G 4		
4714	F14		
4715	F 4		
4716	H 6		
4717	N 5		
4718	J 3		
4720	G 5		
4721	E 3		
4723	C17		
5701	L13		
5703	B12		
6705	M 7		
6707	M 5		
6708	K17		
6709	C16		
7701	C14		
7702	D14		

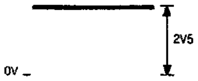

9251
9246
9250
2247
2244
9245
9247
9244
10
11

PCB 03166
T28/104



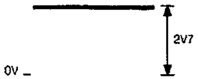
VOLUME 50µs/div

TP12

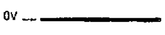


KEY PRESSED

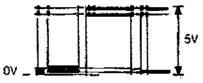
TP13



TP14

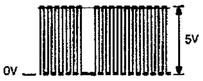


TP14



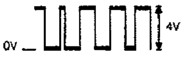
0.2ms/div

TP15



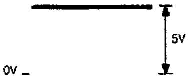
0.2ms/div

TP16

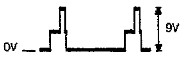


2ms/div

TP17

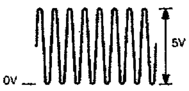


TP18



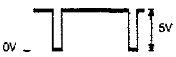
20µs/div

⑫



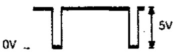
0.5µs/div

⑬



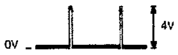
5ms/div

⑭



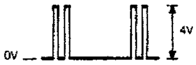
20µs/div

⑮



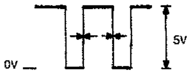
5ms/div

⑯



20µs/div

⑯



SEARCH 50µ s/div

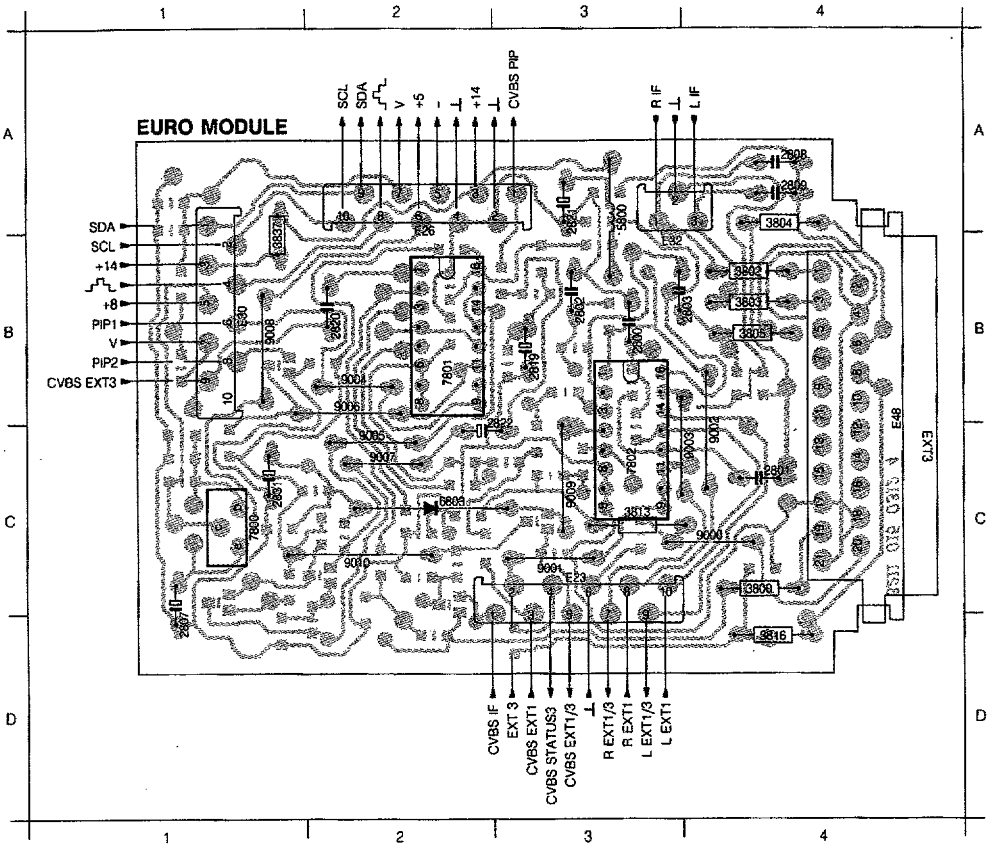
⑰

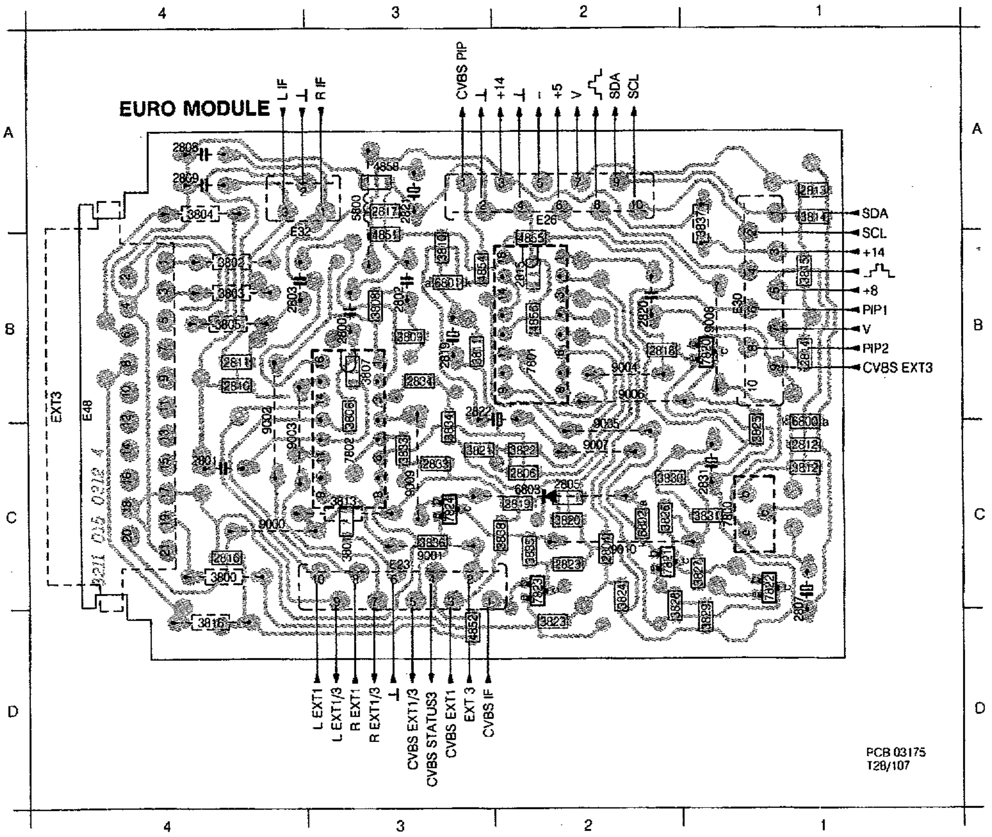
PRS 06912
T 26/105

ule
te
ur

PCB 03166
T28/104

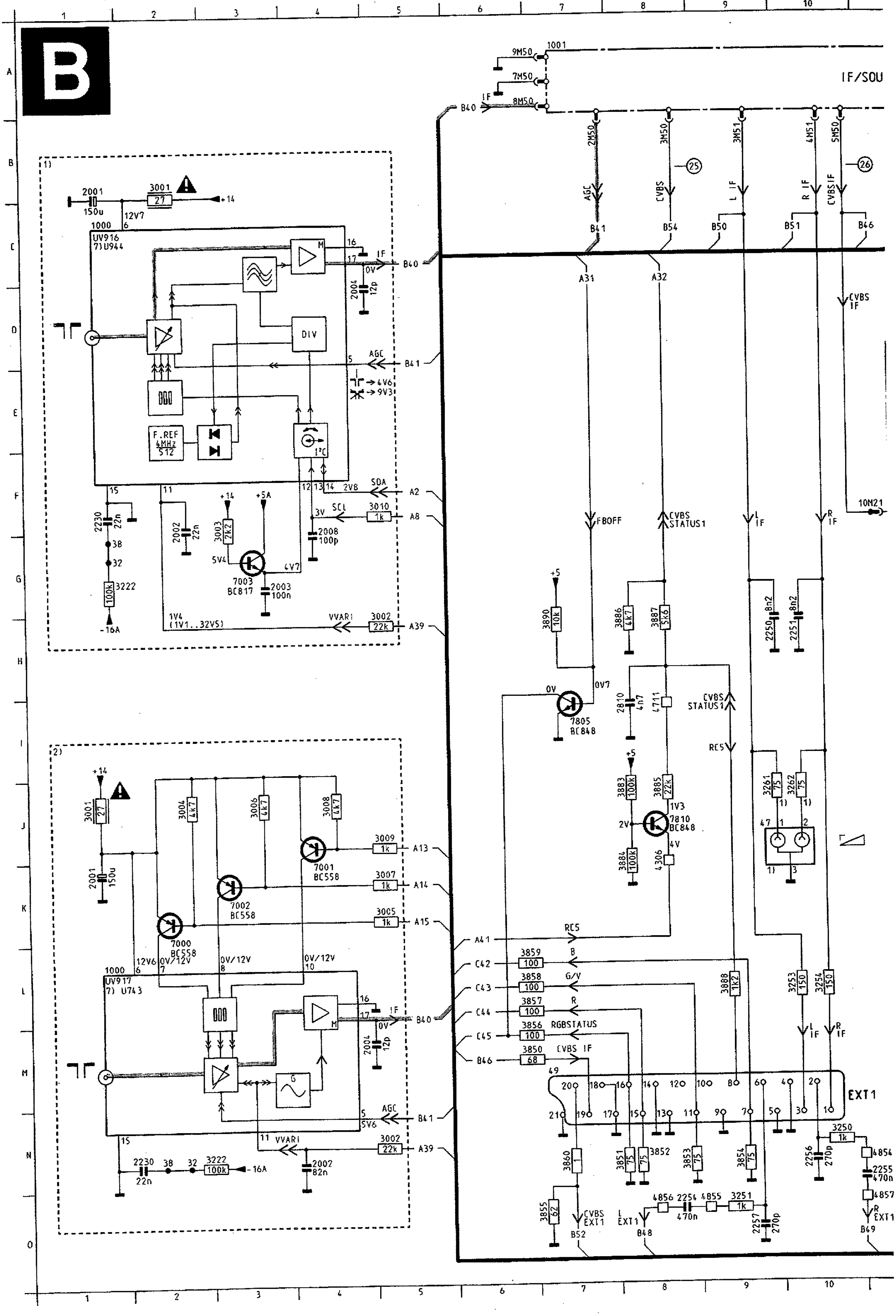
Euro module
Euro-AV-Platte
Module Prise Péritélévision


EURO MODULE
SCL
SDA
V
+5
+14
CVBS PIP
R IF
L IF
SDA
SCL
+14
+8
PIP1
V
PIP2
CVBS EXT3
CVBS IF
EXT 3
CVBS EXT1
CVBS STATUS3
CVBS EXT1/3
R EXT1/3
R EXT1
L EXT1/3
L EXT1
EXT3
E48
E23
E26
E30
E32
7800
7801
7802
1
2
3
4
A
B
C
D

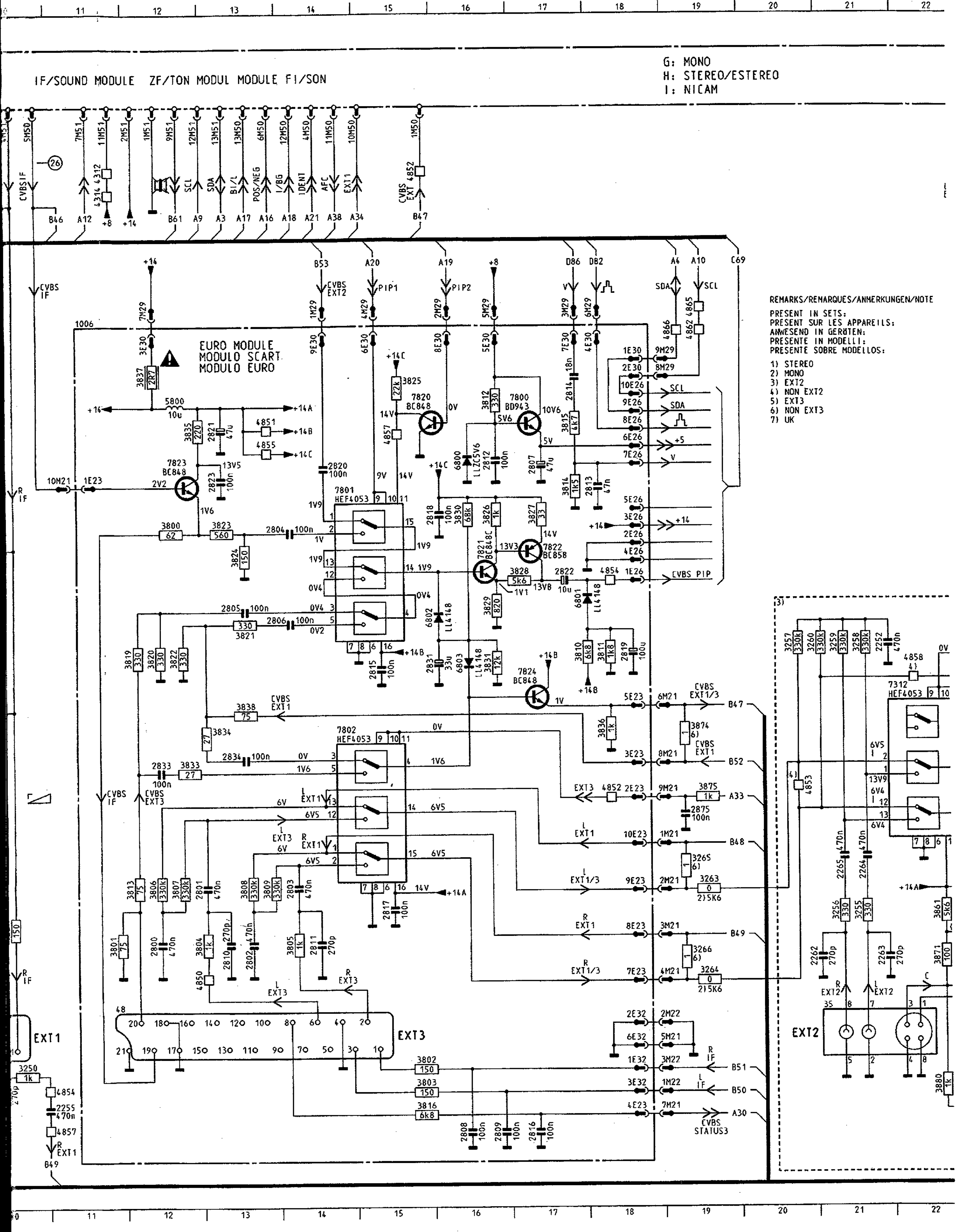

EURO MODULE
L IF
R IF
CVBS PIP
+14
+5
V
SDA
SCL
SDA
SCL
+14
+8
PIP1
V
PIP2
CVBS EXT3
L EXT1
L EXT1/3
R EXT1
R EXT1/3
CVBS EXT1/3
CVBS STATUS3
CVBS EXT1
EXT 3
CVBS IF
EXT3
E48
E23
E26
E30
E32
PCB 03175
T28/107
4
3
2
1
A
B
C
D

E23	C3
E26	B2
E30	B1
E32	B3
E48	C4
2800	B3
2801	C4
2802	B3
2803	B4
2804	C2
2805	C2
2806	C2
2807	D1
2808	A4
2809	A4
2810	B4
2811	B4
2812	C1
2813	A1
2814	B1
2815	B2
2816	C4
2817	A3
2818	B2
2819	B3
2820	B2
2821	B3
2822	C2
2823	C2
2831	C1
2833	C3
2834	B3
3800	C4
3801	C3
3802	B4
3803	B4
3804	A4
3805	B4
3806	C3
3807	B3
3808	B3
3809	B3
3810	B3
3811	B3
3812	C1
3813	C3
3814	B1
3815	B1
3816	D4
3819	C2
3820	C2
3821	C2
3822	C2
3823	D2
3824	D2
3825	C1
3826	C2
3827	C1
3828	D2
3829	D1
3830	C1
3831	C1
3833	C3
3834	C3
3835	C2
3836	C3
3837	B1
3838	C2
4851	B3
4852	D3
4852	D3
4854	B3
4855	B2
4856	B2
4858	A3
5800	A3
6800	C1
6801	B3
6802	C2
6803	C2
7800	C1
7801	B2
7802	C3
7820	B1
7821	C2
7822	D1
7823	D2
7824	C3
9000	C4
9001	C3
9002	C4
9003	C4
9004	B2
9005	C2
9006	B2
9007	C2
9008	B1
9009	C3
9010	C2

Tuner / Kanalwähler / Sélecteur


B
1)
2001
150u
3001
27
+14
12V7
1000
6
UV916
7) U944
M
16
17
IF
0V
B40
2004
12p
DIV
AGC
5
B41
4V6
9V3
F.REF
4MHz
512
I²C
15
11
12
13
14
2V8
SDA
A2
SCL
3010
1k
A8
3V
2008
100p
2230
22n
38
32
3222
100k
-16A
2002
22n
3003
2k2
+5A
5V4
7003
BC817
4V7
2003
100n
1V4
(1V1..32VS)
VVAR1
3002
22k
A39
2)
3004
4k7
3006
4k7
3008
4k7
3009
1k
A13
7001
BC558
3007
A14
7002
BC558
3005
A15
7000
BC558
12V6
0V/12V
7
8
10
UV917
7) U743
G
5V6
2002
82n
9M50
7M50
8M50
1001
IF/SOU
2M50
3M50
3M51
4M51
5M50
AGC
CVBS
L IF
R IF
CVBS IF
25
26
B54
B50
B51
B46
A31
A32
CVBS IF
FBOFF
CVBS STATUS1
L IF
R IF
10M21
+5
3890
10k
3886
4k7
3887
5k6
2250
8n2
2251
8n2
0V
0V7
7805
BC848
2810
4n7
4711
CVBS STATUS1
RC5
3883
100k
3885
22k
1V3
2V
7810
BC848
3884
100k
4306
4V
3261
75
3262
75
47
1
2
3
A41
C42
C43
C44
C45
3859
100
3858
100
3857
100
3856
100
3850
68
B
G/V
R
RGBSTATUS
CVBS IF
3888
1k2
3253
150
3254
150
49
EXT1
20
18
16
14
12
10
8
6
4
2
21
19
17
15
13
11
9
5
3
1
3250
1k
4854
2255
470n
4857
2256
270p
3860
3851
75
3852
75
3853
75
3854
75
3855
62
CVBS EXT1
B52
L EXT1
B48
4856
2254
470n
4855
3251
1k
2257
270p
R EXT1
B49
A B C D E F G H I J K L M N O

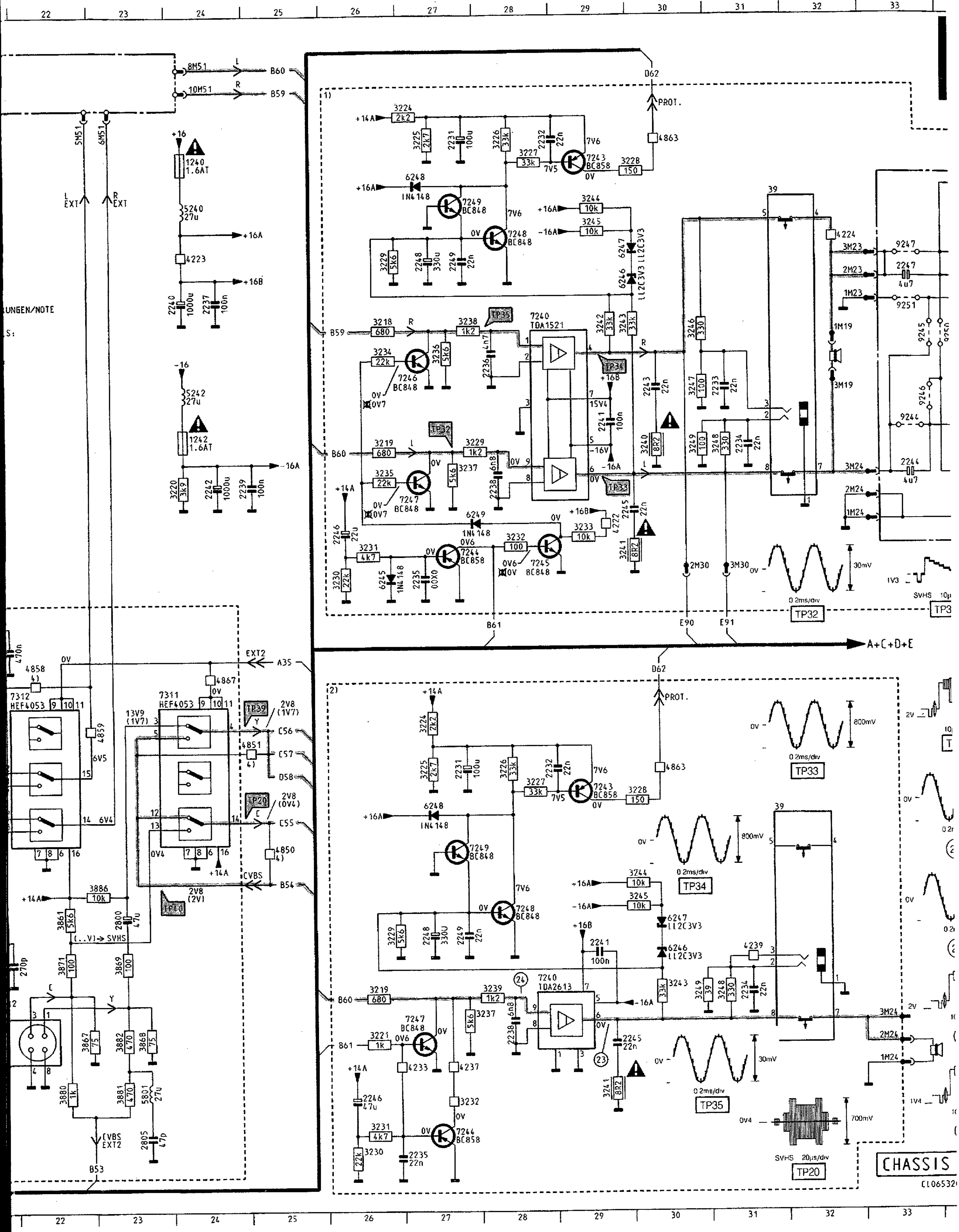
IF / ZF / FI

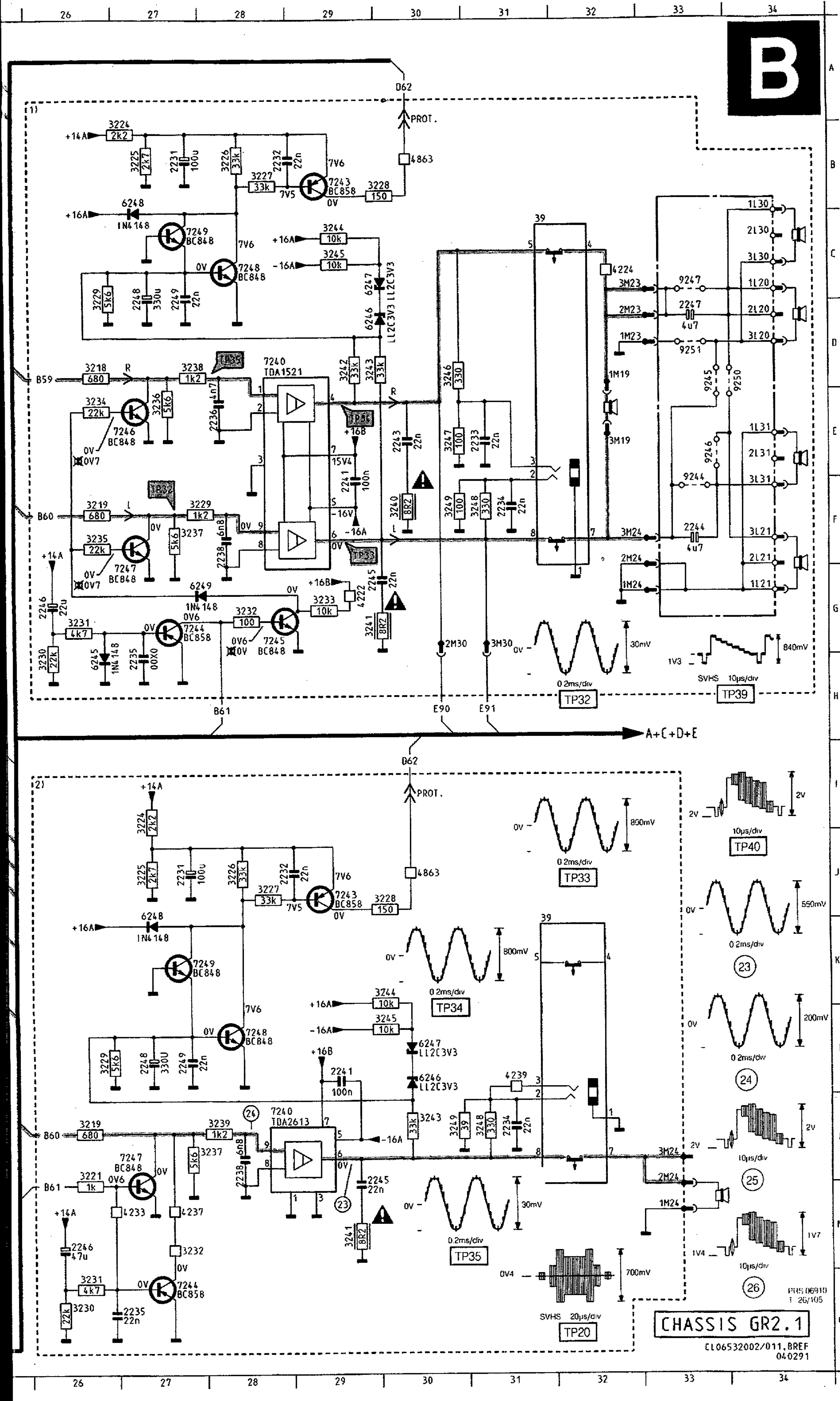

IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON
G: MONO
H: STEREO/ESTEREO
I: NICAM
EURO MODULE
MODULO SCART
MODULO EURO
CVBS IF
CVBS EXT2
PIP1
PIP2
SDA
SCL
CVBS PIP
CVBS EXT1/3
CVBS EXT1
CVBS EXT3
CVBS STATUS3
7801 HEF4053
7802 HEF4053
7312 HEF4053
7820 BC848
7800 BD943
7821 BC848C
7822 BC858
7823 BC848
7824 BC848
EXT1
EXT2
EXT3
B46
B47
B48
B49
B50
B51
B52
B53
B61
A3
A9
A10
A12
A16
A17
A18
A19
A20
A21
A30
A33
A34
A38
C69
D86
D82
+14
+14A
+14B
+14C
+8
+5

REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE IN MODELLI:
PRESENTE SOBRE MODELLOS:

1) STEREO
2) MONO
3) EXT2
4) NON EXT2
5) EXT3
6) NON EXT3
7) UK

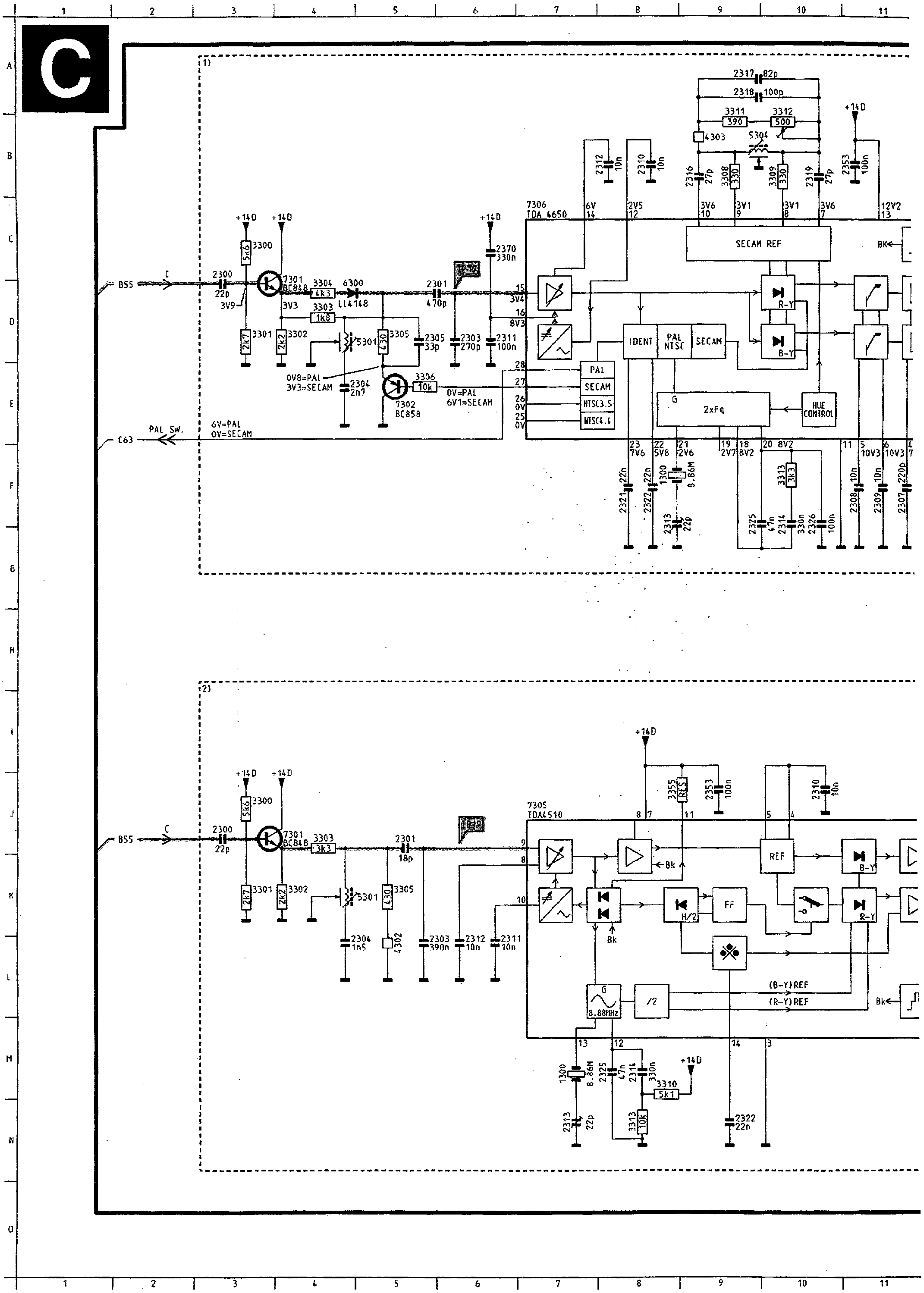
Sound / Ton / Son

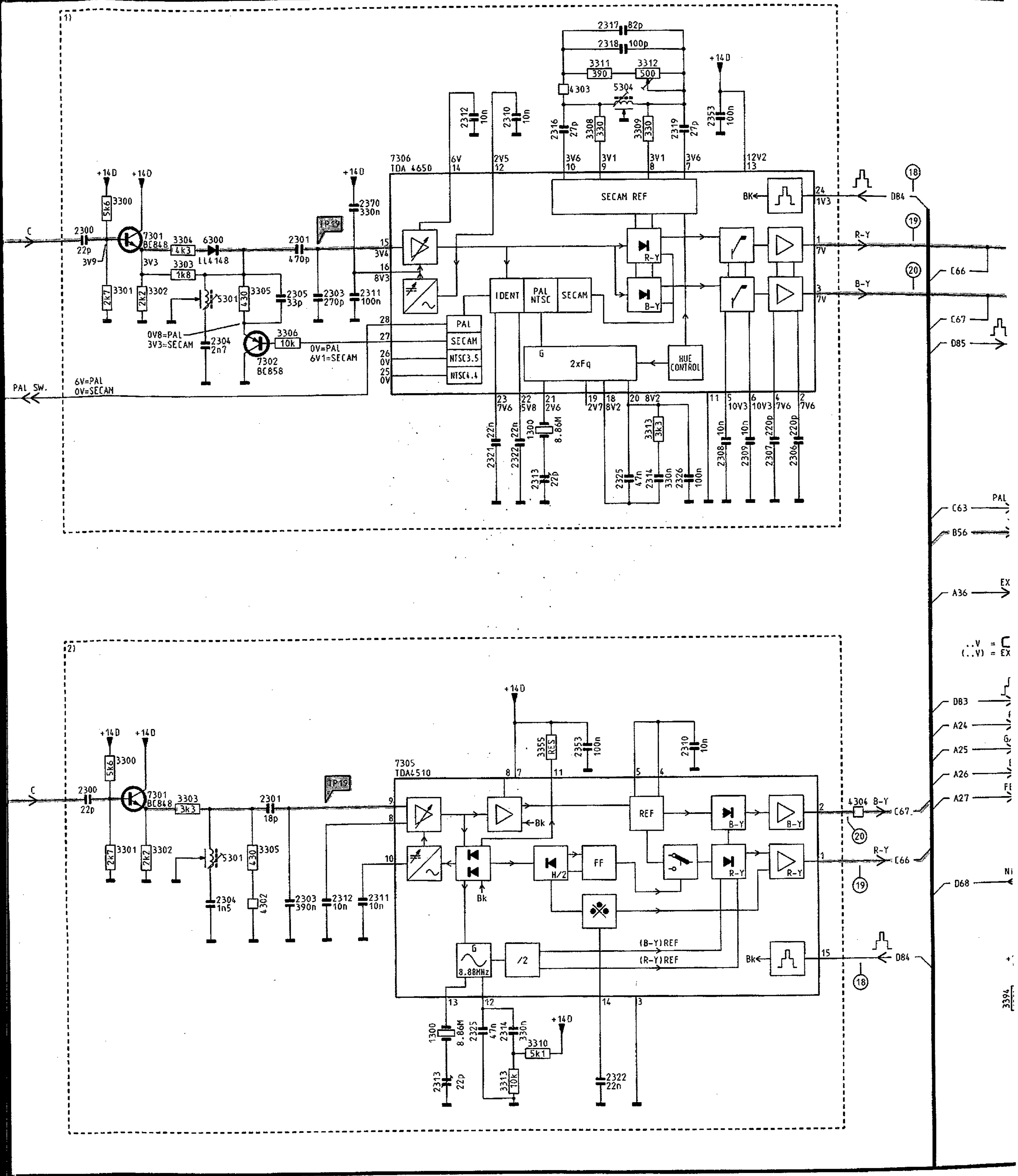

22
23
24
25
26
27
28
29
30
31
32
33
8M51
10M51
B60
B59
D62
PROT.
5M51
6M51
L EXT
R EXT
1240 1.6AT
5240 27u
+16A
+16B
4223
2240 1000u
2237 100n
5242 27u
1242 1.6AT
-16A
3220 3k9
2242 1000u
2239 100n
UNGEN/NOTE
1)
3224 2k2
3225 2k7
2231 100u
3226 33k
2232 22n
3227 33k
7243 BC858
3228 150
4863
6248 1N4148
7249 BC848
7248 BC848
3229 5k6
2248 330u
2249 22n
3244 10k
3245 10k
6247 LL2C3V3
6246 LL2C3V3
3218 680
3238 1k2
TP36
7240 TDA1521
3242 33k
3243 33k
3246 330
3234 22k
7246 BC848
3236 5k6
2236 4n7
TP34
2243 22n
3247 100
2233 22n
15V4
2241 100n
3240 8R2
TP32
3219 680
3229 1k2
3235 22k
7247 BC848
3237 5k6
2238 6n8
TP33
3249 100
3248 330
2234 22n
2245 22n
4272
6249 1N4148
3233 10k
3232 100
7245 BC848
3231 4k7
7244 BC858
6245 1N4148
2235 00X0
2246 22u
3230 22k
3241 8R2
2M30
3M30
30mV
0.2ms/div
TP32
SVHS 10µ
TP3
B61
E90
E91
A+C+D+E
39
4224
3M23
2M23
1M23
9247
2247 4u7
9251
1M19
3M19
9245
9246
9244
3M24
2244 4u7
2M24
1M24
EXT2
A35
4858
4867
7312 HEF4053
7311 HEF4053
13V9 (1V7)
TP39
2V8 (1V7)
C56
4851
C57
D58
4859
6V5
TP20
2V8 (0V4)
C55
4850
CVBS
B54
2V8 (2V)
TP40
3886 10k
3861 5k6
2800 47u
[..V]→ SVHS
3871 100
3869 100
3867 75
3882 470
3868 75
3880 1k
3881 470
5801 27u
2805 47p
CVBS EXT2
B53
270p
470n
2)
800mV
0.2ms/div
TP33
TP34
7240 TDA2613
3239 1k2
3221 1k
B61
4233
4237
3232
2246 47u
3231 4k7
2235 22n
3230 22k
4239
TP35
700mV
SVHS 20µs/div
TP20
CHASSIS
CL06532


B
26
27
28
29
30
31
32
33
34
1)
D62
PROT.
4863
+14A
3224 2k2
3225 2k7
2231 100u
3226 33k
2232 22n
3227 33k
7V5
7V6
7243 BC858
3228 150
0V
+16A
6248 1N4148
7249 BC848
7248 BC848
3229 5k6
2248 330u
2249 22n
+16A
3244 10k
-16A
3245 10k
6247 LL2C3V3
6246 LL2C3V3
B59
3218 680
R
3238 1k2
TP35
7240 TDA1521
3242 33k
3243 33k
3234 22k
7246 BC848
3236 5k6
2236 4n7
TP36
+16B
15V4
2241 100n
-16V
-16A
2243 22n
3240 8R2
3246 330
3247 100
2233 22n
3249 100
3248 330
2234 22n
39
4224
3M23
2M23
1M23
9247
2247 4u7
9251
1M19
3M19
1L30
2L30
3L30
1L20
2L20
3L20
9245
9250
1L31
2L31
3L31
9246
9244
3L21
2L21
1L21
2244 4u7
3M24
2M24
1M24
B60
3219 680
L
TP32
3229 1k2
3237 5k6
2238 6n8
TP33
7247 BC848
3235 22k
0V7
+14A
2246 22u
3231 4k7
3230 22k
6249 1N4148
6245 1N4148
2235 00X0
7244 BC858
0V6
3232 100
7245 BC848
3233 10k
4222
2245 22n
3241 8R2
2M30
3M30
E90
E91
B61
30mV
0.2ms/div
TP32
1V3
840mV
SVHS 10µs/div
TP39
A+C+D+E
2)
D62
PROT.
+14A
3224 2k2
3225 2k7
2231 100u
3226 33k
2232 22n
3227 33k
7V5
7V6
7243 BC858
3228 150
4863
+16A
6248 1N4148
7249 BC848
7248 BC848
3229 5k6
2248 330U
2249 22n
+16A
3244 10k
-16A
3245 10k
6247 LL2C3V3
6246 LL2C3V3
+16B
2241 100n
4239
3243 33k
3249 39
3248 330
2234 22n
39
B60
3219 680
3239 1k2
24
7240 TDA2613
-16A
3237 5k6
2238 6n8
7247 BC848
B61
3221 1k
4233
4237
2245 22n
23
3241 8R2
+14A
2246 47u
3232
3231 4k7
3230 22k
2235 22n
7244 BC858
3M24
2M24
1M24
850mV
0.2ms/div
TP33
800mV
0.2ms/div
TP34
30mV
0.2ms/div
TP35
700mV
0V4
SVHS 20µs/div
TP20
2V
10µs/div
TP40
550mV
0.2ms/div
23
200mV
0.2ms/div
24
2V
10µs/div
25
1V7
1V4
10µs/div
26
PR5 06910 1 26/105
CHASSIS GR2.1
CL06532002/011.BREF 040291
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O

1000	L 1	3229	L26	4222	G29		
1000	C 1	3229	F28	4223	C24		
1001	A 7	3229	C26	4224	C32		
1006	D11	3230	O26	4233	N27		
1240	B24	3230	H26	4237	N27		
1242	F24	3231	O26	4239	L31		
2001	K 1	3231	G26	4306	K 8		
2001	B 1	3232	N27	4312	B11		
2002	N 4	3232	G28	4314	C11		
2002	F 2	3233	G29	4711	I 8		
2003	G 3	3234	E26	4759	J 9		
2004	M 4	3235	F26	4800	M11		
2004	D 4	3236	E27	4850	M13		
2008	G 4	3237	M27	4850	K25		
2230	N 2	3237	F27	4851	F13		
2230	F 1	3238	D27	4851	J25		
2231	J27	3239	M28	4852	B15		
2231	B27	3240	F30	4852	J18		
2232	J29	3241	N29	4853	J20		
2232	B29	3241	G30	4854	H18		
2233	E31	3242	D29	4854	N11		
2234	M31	3243	D30	4855	O 9		
2234	F31	3243	M30	4855	F13		
2235	O27	3244	K30	4856	O 8		
2235	H27	3244	C29	4857	F15		
2236	E28	3245	L30	4857	O11		
2237	D24	3245	C29	4858	I22		
2238	M28	3246	D30	4859	I23		
2238	F28	3247	E30	4862	D19		
2239	F25	3248	M31	4863	J30		
2240	D24	3248	F31	4863	B30		
2241	L29	3249	M30	4865	D19		
2241	F29	3249	F30	4866	D19		
2242	F24	3250	N10	4867	I24		
2243	E30	3251	O 9	4900	M 7		
2244	F33	3253	L10	5240	C24		
2245	N29	3254	L10	5242	E24		
2245	G30	3255	L21	5800	E12		
2246	N26	3256	L21	5801	N23		
2246	G26	3257	H20	6245	H26		
2247	D33	3258	H21	6246	L30		
2248	L27	3259	H21	6246	D30		
2248	C27	3260	H21	6247	L30		
2249	L27	3261	J 9	6247	C30		
2249	C27	3262	J10	6248	B27		
2250	H 1	3263	L19	6248	K27		
2251	H10	3264	M19	6249	G28		
2252	H21	3265	K19	6800	F16		
2254	O 8	3266	L19	6801	H18		
2255	N11	3800	G12	6802	H16		
2256	N10	3801	L11	6803	I16		
2257	O 9	3802	N15	7000	K 2		
2262	L21	3803	N15	7001	K 4		
2263	L21	3804	L13	7002	K 3		
2264	K21	3805	L14	7003	G 3		
2265	K21	3806	L12	7240	M28		
2800	L12	3807	L12	7240	D28		
2800	L23	3808	L13	7243	J29		
2801	L13	3809	L13	7243	B29		
2802	L13	3810	I18	7244	O27		
2803	L14	3811	I18	7244	G27		
2804	G14	3812	E16	7245	G29		
2805	H13	3813	L12	7246	E27		
2805	O23	3814	F17	7247	M27		
2806	H14	3815	F17	7247	F27		
2807	F17	3816	N15	7248	L28		
2808	O16	3819	I12	7248	C28		
2809	O16	3820	I12	7249	K27		
2810	I 8	3821	H13	7249	C27		
2810	L13	3822	I12	7311	I23		
2811	L14	3823	G13	7312	I21		
2812	F16	3824	G13	7800	E17		
2813	F18	3825	E15	7801	F14		
2814	E17	3826	G16	7802	J14		
2815	I15	3827	G17	7805	I 7		
2816	O17	3828	H17	7810	J 8		
2817	L15	3829	H16	7820	E16		
2818	G16	3830	G16	7821	G16		
2819	I18	3831	I16	7822	G17		
2820	F14	3833	J12	7823	F12		
2821	F13	3834	I13	7824	I17		
2822	H17	3835	F12	9244	F33		
2823	F13	3836	I18	9245	D33		
2831	I16	3837	E12	9246	E33		
2833	J12	3838	I13	9247	C33		
2834	J13	3850	M 6	9250	D34		
2875	K19	3851	N 8	9251	D33		
3001	J 1	3852	N 8				
3001	B 2	3853	N 8				
3002	N 5	3854	N 9				
3002	H 5	3855	O 7				
3003	F 3	3856	M 6				
3004	J 2	3857	L 6				
3005	K 5	3858	L 6				
3006	J 3	3859	L 6				
3007	K 5	3860	N 7				
3008	J 4	3861	L22				
3009	J 5	3867	M22				
3010	F 5	3868	M23				
3218	D26	3869	L23				
3219	M26	3871	L22				
3219	F26	3874	I19				
3220	F24	3875	J19				
3221	M26	3880	N22				
3222	G 1	3881	N23				
3222	N 3	3882	M23				
3224	I27	3883	J 8				
3224	B27	3884	K 8				
3225	J27	3885	J 8				
3225	B27	3886	H 8				
3226	J28	3886	L23				
3226	B28	3887	H 8				
3227	J28	3888	L 9				
3227	B28	3890	H 7				
3228	J30	3963	C31				
3228	B30	3963	K31				

Video


C
1)
B55
C
2300
22p
7301
BC848
3V9
3V3
+14D
3300
5k6
3301
2k7
3302
2k2
3304
4k3
6300
LL4148
3303
1k8
5301
3305
430
2305
33p
0V8=PAL
3V3=SECAM
2304
2n7
7302
BC858
3306
10k
0V=PAL
6V1=SECAM
2301
470p
2303
270p
2370
330n
2311
100n
7306
TDA 4650
6V
14
2V5
12
2312
10n
2310
10n
15
3V4
16
8V3
28
27
26
0V
25
0V
PAL
SECAM
NTSC3.5
NTSC4.4
IDENT
PAL NTSC
SECAM
2xFq
G
HUE CONTROL
SECAM REF
R-Y
B-Y
Bk
2317
82p
2318
100p
3311
390
3312
500
4303
5304
2316
27p
3308
330
3309
330
2319
27p
2353
100n
3V6
10
3V1
9
3V1
8
3V6
7
12V2
13
23
7V6
22
5V8
21
2V6
19
2V7
18
8V2
20
8V2
11
5
10V3
6
10V3
4
2321
22n
2322
22n
1300
8.86M
2313
22p
3313
3k3
2325
47n
2314
330n
2326
100n
2308
10n
2309
10n
2307
220p
PAL SW.
E63
6V=PAL
0V=SECAM
2)
B55
C
2300
22p
7301
BC848
+14D
3300
5k6
3301
2k7
3302
2k2
3303
3k3
5301
3305
430
2304
1n5
4302
2301
18p
2303
390n
2312
10n
2311
10n
7305
TDA4510
9
8
10
7
11
5
4
3355
RES.
2353
100n
2310
10n
Bk
H/2
FF
REF
B-Y
R-Y
G
8.88MHz
/2
(B-Y) REF
(R-Y) REF
13
12
14
3
1300
8.86M
2313
22p
2325
47n
2314
330n
3310
5k1
3313
10k
2322
22n
1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O


1)
C
2300
22p
3V9
+14D
3300
5k6
3301
2k7
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BC848
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2k2
3304
4k3
6300
LL4148
3303
1k8
5301
3305
430
2305
33p
0V8=PAL
3V3=SECAM
2304
2n7
7302
BC858
3306
10k
0V=PAL
6V1=SECAM
6V=PAL
0V=SECAM
PAL SW.
TP19
2301
470p
2303
270p
2370
330n
2311
100n
7306
TDA 4650
2312
10n
2310
10n
6V
14
2V5
12
2317
82p
2318
100p
3311
390
3312
500
4303
5304
2316
27p
3308
330
3309
330
2319
27p
2353
100n
3V6
10
3V1
9
3V1
8
3V6
7
12V2
13
SECAM REF
BK
24
1V3
D84
R-Y
B-Y
IDENT
PAL NTSC
SECAM
PAL
SECAM
NTSC3.5
NTSC4.4
2xFq
HUE CONTROL
15
3V4
16
8V3
28
27
26
0V
25
0V
1
7V
3
7V
C66
C67
D85
23
7V6
22
5V8
21
2V6
19
2V7
18
8V2
20
8V2
11
5
10V3
6
10V3
4
7V6
2
7V6
2321
22n
2322
22n
1300
8.86M
2313
22p
2325
47n
3313
3k3
2314
330n
2326
100n
2308
10n
2309
10n
2307
220p
2306
220p
C63
PAL
B56
A36
EX
..V = C
(..V) = EX
D83
A24
A25
A26
A27
D68
2)
+14D
3300
5k6
2300
22p
C
7301
BC848
3301
2k7
3302
2k2
3303
3k3
5301
3305
430
2304
1n5
4302
2301
18p
TP19
2303
390n
2312
10n
2311
10n
7305
TDA4510
3355
RES
2353
100n
2310
10n
8
7
11
5
4
9
8
10
Bk
REF
B-Y
R-Y
H/2
FF
G
8.88MHz
/2
(B-Y)REF
(R-Y)REF
2
1
15
4304
B-Y
C67
R-Y
C66
D84
13
12
14
3
1300
8.86M
2313
22p
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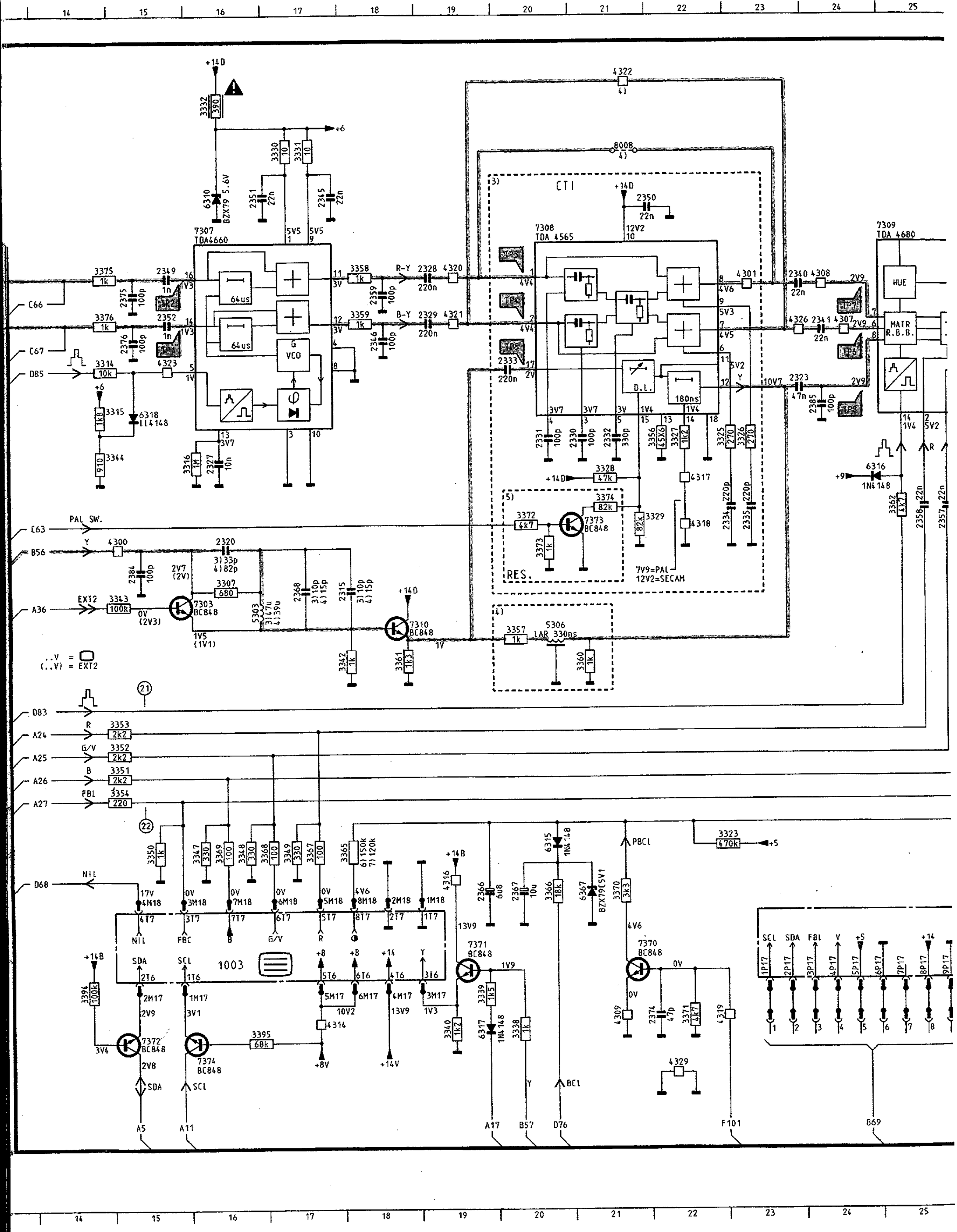
10k
2322
22n
3394
⑱
⑲
⑳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25
+14D
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390
+6
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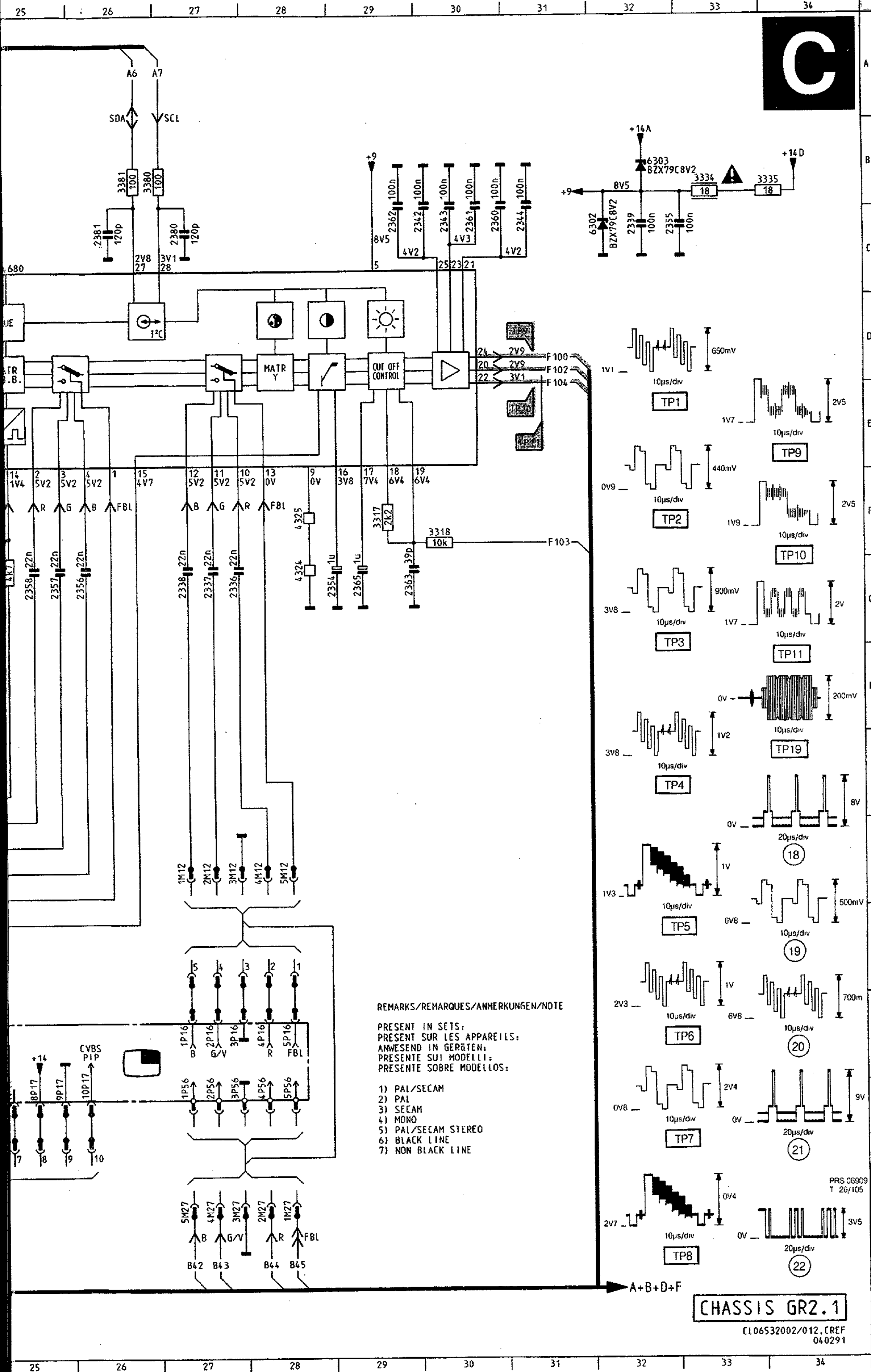
3331
10
6310
BZX79 5.6V
2351
22n
2345
22n
7307
TDA4660
5V5
64us
G
VCO
3375
1k
2349
1n
1V3
2375
100p
TP2
C66
3376
1k
2352
1n
2376
100p
TP1
C67
D85
3314
10k
4323
1V
+6
3315
1k8
6318
LL4148
3344
910
3316
1M
2327
10n
3V7
3358
1k
R-Y
2328
220n
4320
2359
100p
3359
1k
B-Y
2329
220n
4321
2346
100p
3V
4322
4)
8008
4)
3)
CTI
+14D
2350
22n
7308
TDA 4565
12V2
TP3
TP4
TP5
4V4
2333
220n
2V
D.L.
180ns
4V6
5V3
4V5
5V2
10V7
4301
2340
22n
4308
2V9
4326
2341
22n
4307
2323
47n
2385
100p
TP7
TP6
TP8
7309
TDA 4680
HUE
MATR
R.B.B.
2331
100p
2330
100p
2332
330p
3356
45K6
3327
1k2
3325
270
3326
270
+14D
3328
47k
4317
4318
2334
220p
2335
220p
5)
3374
82k
3372
4k7
7373
BC848
3373
1k
3329
82k
RES.
7V9=PAL
12V2=SECAM
+9
6316
1N4148
3362
4k7
2358
22n
2357
22n
1V4
5V2
R
C63
PAL SW.
B56
Y
4300
2384
100p
2320
3) 33p
4) 82p
2V7
(2V)
3307
680
2368
3) 10p
4) 15p
2315
3) 10p
4) 15p
5303
3) 47u
4) 39u
A36
EXT2
3343
100k
0V
(2V3)
7303
BC848
1V5
(1V1)
+14D
7310
BC848
1V
3342
1k
3361
1k3
4)
3357
1k
5306
LAR 330ns
3360
1k
..V = ▭
(..V) = EXT2
㉑
D83
A24
R
3353
2k2
A25
G/V
3352
2k2
A26
B
3351
2k2
A27
FBL
3354
220
㉒
3350
1k
3347
330
3369
100
3348
330
3368
100
3349
330
3367
100
3365
6) 150k
7) 120k
D68
NIL
17V
4M18
0V
3M18
7M18
6M18
5M18
4V6
8M18
2M18
1M18
4T7
3T7
7T7
6T7
5T7
8T7
2T7
1T7
NIL
FBC
B
G/V
R
+14B
SDA
SCL
1003
2T6
1T6
+8
5T6
6T6
+14
4T6
Y
3T6
3394
100k
2M17
2V9
1M17
3V1
5M17
6M17
10V2
4M17
13V9
3M17
1V3
4314
+8V
+14V
3V4
7372
BC848
2V8
7374
BC848
3395
68k
SDA
SCL
A5
A11
+14B
4316
13V9
2366
6u8
2367
10u
6315
1N4148
3366
18k
6367
BZX79C5V1
7371
BC848
1V9
3339
1k5
3340
1k2
6317
1N4148
3338
1k
Y
BCL
A17
B57
D76
PBCL
3323
470k
+5
3370
3k3
4V6
7370
BC848
0V
4309
2374
47p
3371
4k7
4319
4329
F101
SCL
SDA
FBL
V
+5
+14
1P17
2P17
3P17
4P17
5P17
6P17
7P17
8P17
9P17
1
2
3
4
5
6
7
8
B69


C
25
26
27
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29
30
31
32
33
34
A6
A7
SDA
SCL
3381 100
3380 100
2381 120p
2380 120p
2V8 27
3V1 28
680
I²C
MATR Y
CUT OFF CONTROL
+9
8V5
2362 100n
2342 100n
2343 100n
2361 100n
2360 100n
2344 100n
4V2
4V3
4V2
5
25
23
21
24
20
22
2V9
2V9
3V1
F100
F102
F104
TP9
TP10
TP11
+14A
6303 BZX79C8V2
+14D
+9
8V5
3334 18
3335 18
6302 BZX79C8V2
2339 100n
2355 100n
14 1V4
2 5V2
3 5V2
4 5V2
1
15 4V7
12 5V2
11 5V2
10 5V2
13 0V
9 0V
16 3V8
17 7V4
18 6V4
19 6V4
R
G
B
FBL
B
G
R
FBL
4325
4324
2354 1u
2365 1u
3317 2K2
3318 10k
2363 39p
F103
2358 22n
2357 22n
2356 22n
2338 22n
2337 22n
2336 22n
1M12
2M12
3M12
4M12
5M12
5
4
3
2
1
1P16
2P16
3P16
4P16
5P16
B
G/V
R
FBL
1P56
2P56
3P56
4P56
5P56
+14
CVBS PIP
8P17
9P17
10P17
7
8
9
10
5M27
4M27
3M27
2M27
1M27
B
G/V
R
FBL
B42
B43
B44
B45
A+B+D+F
1V1
650mV
10µs/div
TP1
1V7
2V5
10µs/div
TP9
0V9
440mV
10µs/div
TP2
1V9
2V5
10µs/div
TP10
3V8
900mV
10µs/div
TP3
1V7
2V
10µs/div
TP11
0V
200mV
10µs/div
TP19
3V8
1V2
10µs/div
TP4
0V
8V
20µs/div
18
1V3
1V
10µs/div
TP5
6V8
500mV
10µs/div
19
2V3
1V
10µs/div
TP6
6V8
700m
10µs/div
20
0V8
2V4
10µs/div
TP7
0V
9V
20µs/div
21
2V7
0V4
10µs/div
TP8
0V
3V5
20µs/div
22
PRS 06909 T 26/105
CHASSIS GR2.1
CL06532002/012.CREF 040291

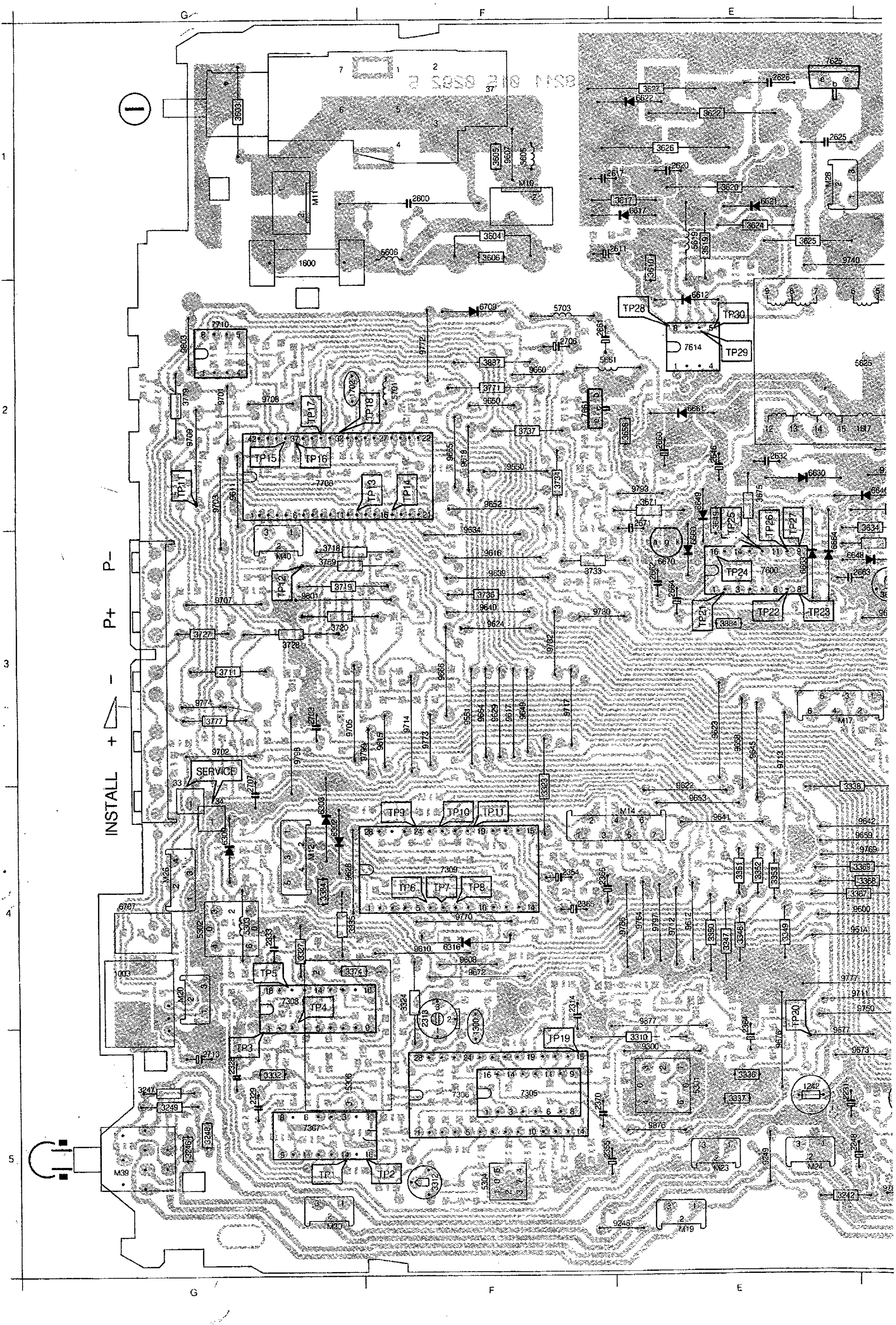
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL/SECAM
2) PAL
3) SECAM
4) MONO
5) PAL/SECAM STEREO
6) BLACK LINE
7) NON BLACK LINE

1300	F 8	3329	G22
1300	M 7	3330	B17
2300	D 3	3331	B17
2300	J 3	3332	A16
2301	D 6	3334	B33
2301	J 5	3335	B34
2303	D 6	3338	M20
2303	L 5	3339	M19
2304	E 4	3340	M19
2304	L 4	3342	I 18
2305	D 5	3343	H15
2306	F12	3344	F15
2307	F11	3347	K16
2308	F11	3348	K16
2309	F11	3349	K17
2310	B 8	3350	K15
2310	J10	3351	J15
2311	D 6	3352	J15
2311	L 6	3353	I 15
2312	B 8	3354	J15
2312	L 6	3355	J 9
2313	G 8	3356	F22
2313	N 7	3357	H20
2314	G10	3358	D18
2314	M 8	3359	D16
2315	H18	3360	I21
2316	B 9	3361	I 18
2317	A 9	3362	G25
2318	A 9	3365	K18
2319	B10	3366	L20
2320	G16	3367	K17
2321	F 8	3368	K17
2322	N 9	3369	K16
2322	F 8	3370	L21
2323	E24	3371	M22
2325	G 9	3372	G20
2325	M 8	3373	G20
2326	G10	3374	G21
2327	F16	3375	D15
2328	D19	3376	D15
2329	D19	3380	B27
2330	F21	3381	B26
2331	F20	3394	M14
2332	F21	3395	M16
2333	E20	4300	G15
2334	G23	4301	D23
2335	G23	4303	B 9
2336	G27	4304	K12
2337	G27	4307	D24
2338	G27	4308	D24
2339	C32	4309	M21
2340	D24	4314	M17
2341	D24	4316	K19
2342	C30	4317	F22
2343	C30	4318	G22
2344	C31	4319	M22
2345	C17	4320	D19
2346	E18	4321	D19
2349	D15	4322	A21
2350	C22	4323	E15
2351	C17	4324	G28
2352	D15	4325	F28
2353	B11	4326	D24
2353	J 9	4329	N22
2354	G29	5301	D 5
2355	C33	5301	K 5
2356	G26	5303	H16
2357	G25	5304	B 1
2358	G25	5306	H20
2359	D18	6300	D 5
2360	C31	6302	C32
2361	C30	6303	B32
2362	C29	6310	C16
2363	G29	6315	K20
2365	G29	6316	F25
2366	L19	6317	M19
2367	L20	6318	E15
2368	H17	6367	L21
2370	C 6	7301	D 4
2374	M22	7301	J 4
2375	D15	7302	E 5
2376	E15	7303	H16
2380	C27	7305	J 7
2381	C26	7306	C 7
2384	G15	7307	C16
2385	E24	7308	C20
3300	C 3	7309	C25
3300	J 3	7310	H18
3301	D 3	7370	L21
3301	K 3	7371	L19
3302	D 4	7372	N15
3302	K 4	7373	G21
3303	D 4	7374	N16
3303	J 4	8008	B21
3304	D 4		
3305	D 5		
3305	K 5		
3306	E 5		
3307	H16		
3308	B 9		
3309	B10		
3310	M 8		
3311	B 9		
3312	B10		
3313	F10		
3313	N 8		
3314	E15		
3315	E15		
3316	F16		
3317	F29		
3318	F30		
3323	K23		
3325	F23		
3326	F23		
3327	F22		
3328	F21		

Monocarrier / Hauptplatine / Châssis


G
F
E
1
2
3
4
5
INSTALL
+
-
P+
P–
SERVICE
1600
M11
M10
2600
3503
3604
3606
5606
3605
9607
5605
7625
2626
3627
6622
9622
3626
2625
2620
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3620
3617
6617
6621
3624
3625
3619
5619
3610
2611
M28
9740
6612
TP28
TP30
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TP17
TP18
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TP16
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TP13
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3649
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TP26
TP27
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2663
TP24
7600
6663
2662
3664
TP21
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TP22
TP23
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9634
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3759
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3733
9639
TP12
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9622
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9641
3338
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TP10
TP11
M14
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9659
9769
6300
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M12
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7309
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TP7
TP8
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M26
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3333
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9672
1003
M20
TP5
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3374
7308
TP4
3324
2313
1300
2314
9877
TP20
9777
9711
9750
9677
9673
2715
TP3
2328
3332
TP19
3310
9300
2364
9676
3336
5306
7306
7305
3337
1242
2231
3247
3249
2329
2370
5301
9876
3246
3248
7307
3249
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M24
M39
TP1
TP2
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5304
2355
M30
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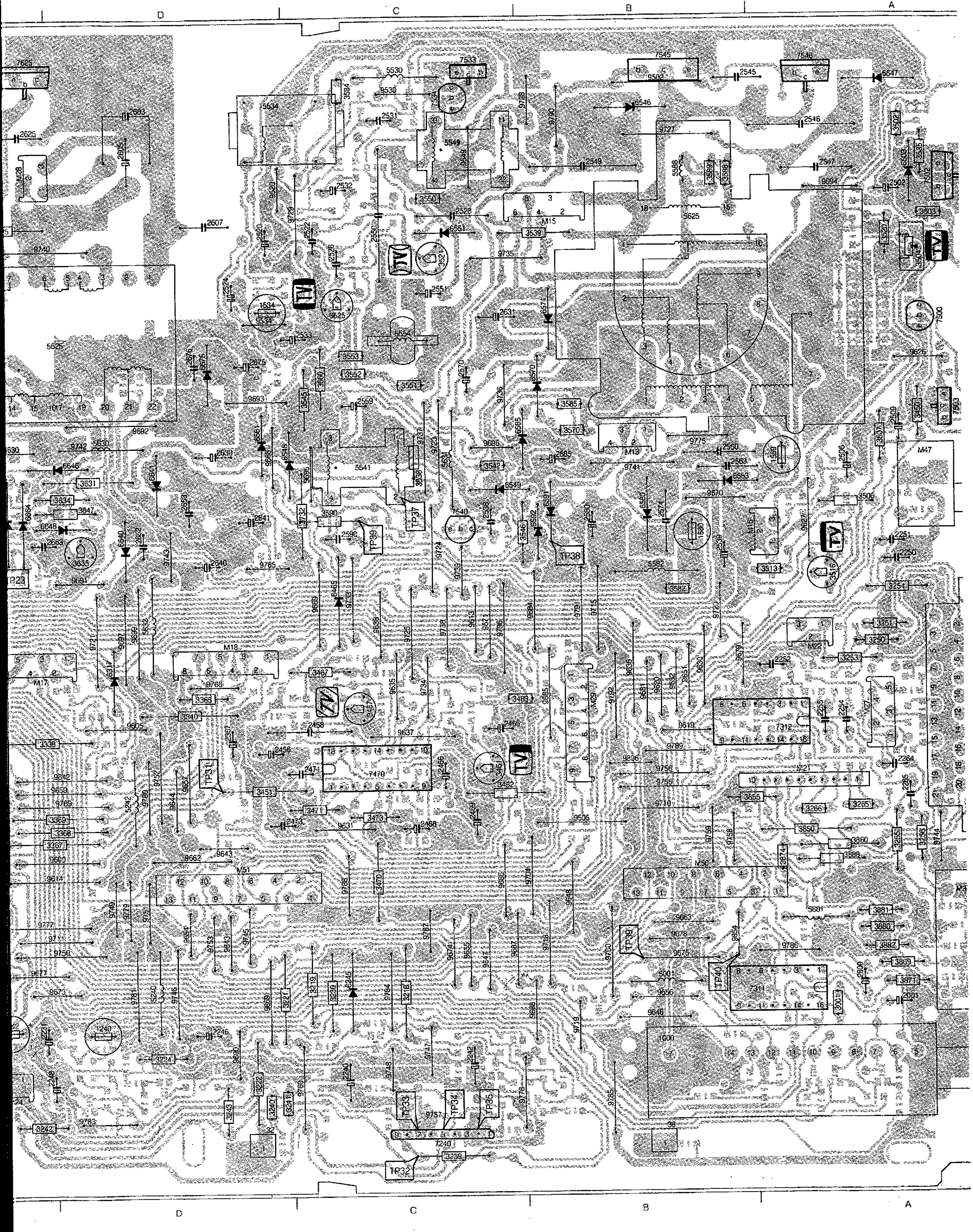
M19
3242


D
C
B
A
M15
M13
M16
M17
M18
M22
M27
M28
M29
M47
M50
M51
M21
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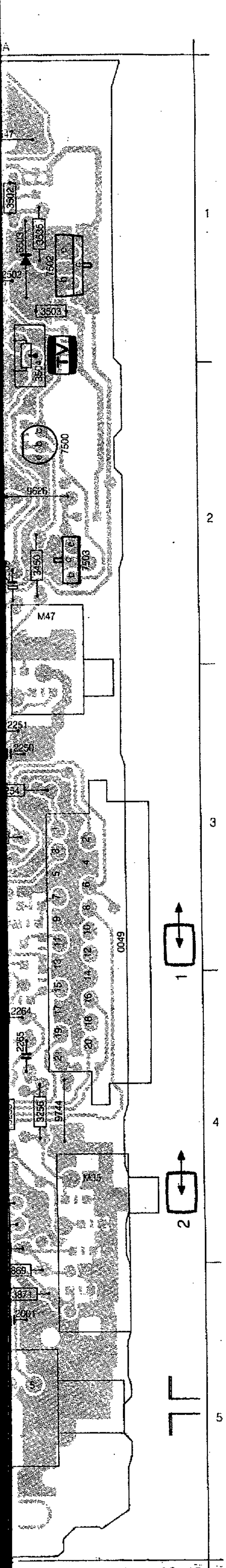
1500
TP23
TP31
TP32
TP33
TP34
TP35
TP36
TP37
TP38
TP39
TP40
1534



PCB.03145
T21/051

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33	3G
34	4G
37	1F
38	5B
M10	1F
M11	1G
M12	4G
M13	2B
M14	4E
M15	1B
M16	3A
M17	3E
M18	3D
M19	5E
M20	4G
M21	4A
M22	3A
M23	5E
M24	5E
M26	4G
M27	3A
M28	1E
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M35	4A
M39	5G
M40	3G
M47	2A
M50	4B
M51	4D
0049	3A
1000	5B
1003	4G
1240	5D
1242	5E
1300	5F
1534	2D
1559	2A
1580	3B
1600	1G
1702	2G
2001	5A
2231	5E
2240	5C
2242	5C
2246	5D
2248	5E
2250	3A
2251	3A
2252	3A
2254	3A
2255	3A
2264	4A
2265	4A
2313	4F
2314	4F
2328	5G
2329	5G
2333	4G
2354	4F
2355	5F
2364	5E
2365	4F
2366	4F
2367	4D
2370	5F
2456	4D
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2465	3C
2466	4C
2468	4C
2469	4C
2471	4C
2473	4D
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2506	2A
2509	2A
2520	1D
2522	1C
2524	2D
2526	2C
2528	1C
2531	1C
2532	1C
2533	2C
2538	3C
2539	3B
2545	1B
2546	1A
2547	1A
2549	1B
2550	1C
2551	2C
2559	2C
2560	2B
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2570	2C
2574	3B
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2590	3C
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2607	1D
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2626	1E
2630	2D
2631	2C
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2640	3D
2641	3D
2646	2E
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2653	3D
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2661	2F
2662	3E
2663	3E
2664	3E
2671	2E
2675	2D
2676	2D
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2706	2F
2707	4G
2713	5G
2800	5A
3001	5A
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3219	5C
3221	5D
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3240	5D
3241	5D
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3243	5D
3246	5G
3247	5G
3248	5G
3249	5G
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3253	3A
3254	3A
3255	4A
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3266	4A
3310	5E
3312	5F
3323	4F
3324	4F
3327	4G
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3334	4G
3335	4G
3336	5E
3337	5E
3338	4E
3340	3D
3347	4E
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3350	4E
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3352	4E
3353	4E
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3504	2A
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3507	2A
3513	3A
3516	3A
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6317	3D
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7503	2A
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7600	3E
7614	2E
7625	1E
7661	2F
7708	2G
7710	2G
9248	5F
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9300	5E
9502	1B
9505	4B
9520	1D
9530	1C
9534	2D
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9551	3F
9600	4E
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9608	4F
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9611	2G
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9614	4E
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9616	3F
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9721	3D
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9753	4D
9755	4B
9756	4B
9757	5C
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9759	4B
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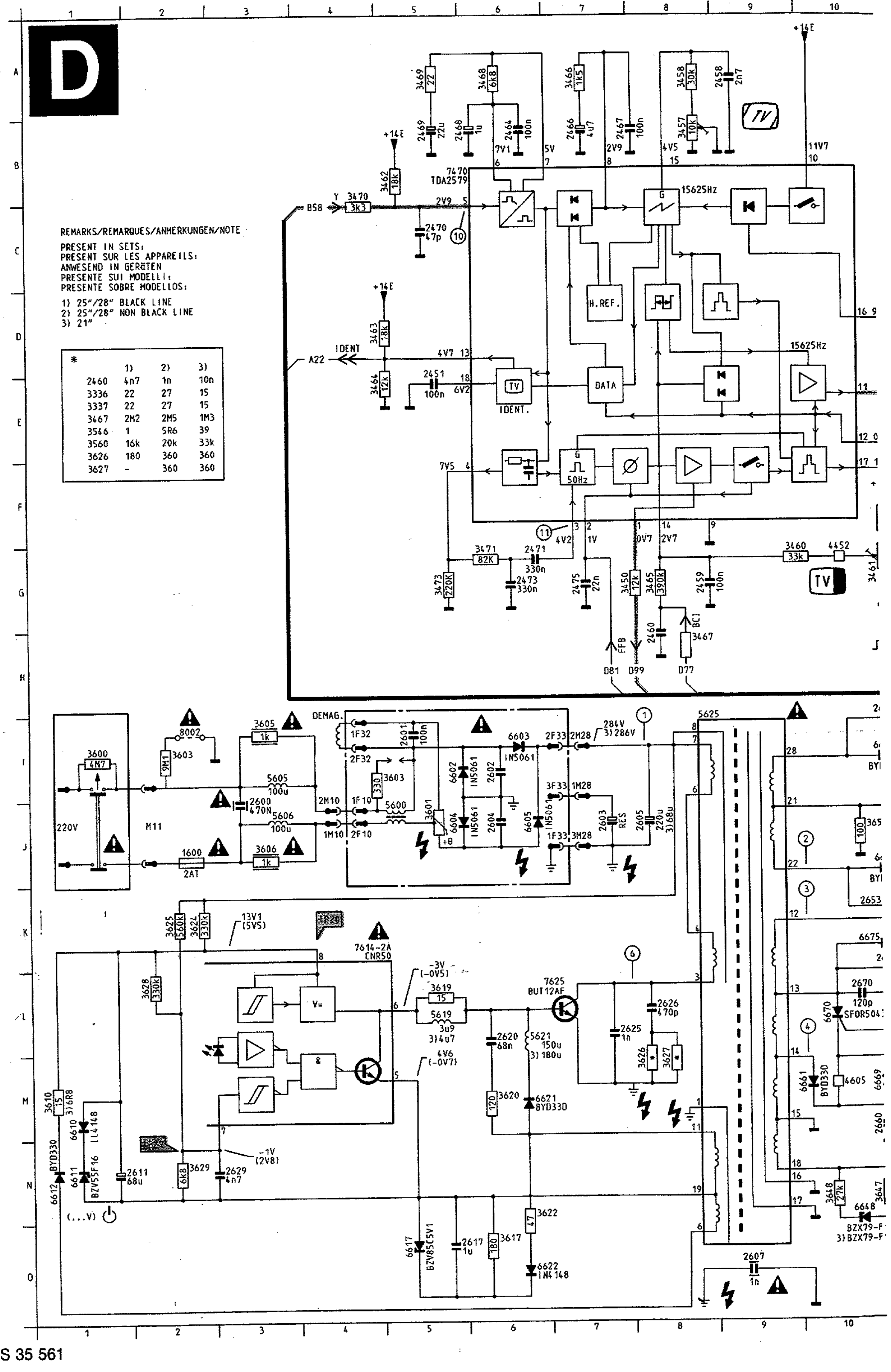
9797	4E
9798	3G
9799	3F
9801	3G
9803	2G
9806	4B
9843	4D
9854	4B
9869	5D
9876	5E
9877	4E

Power supply / Stromversorgung / Alimentation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7470
TDA2579
B58
A22
IDENT
H.REF.
DATA
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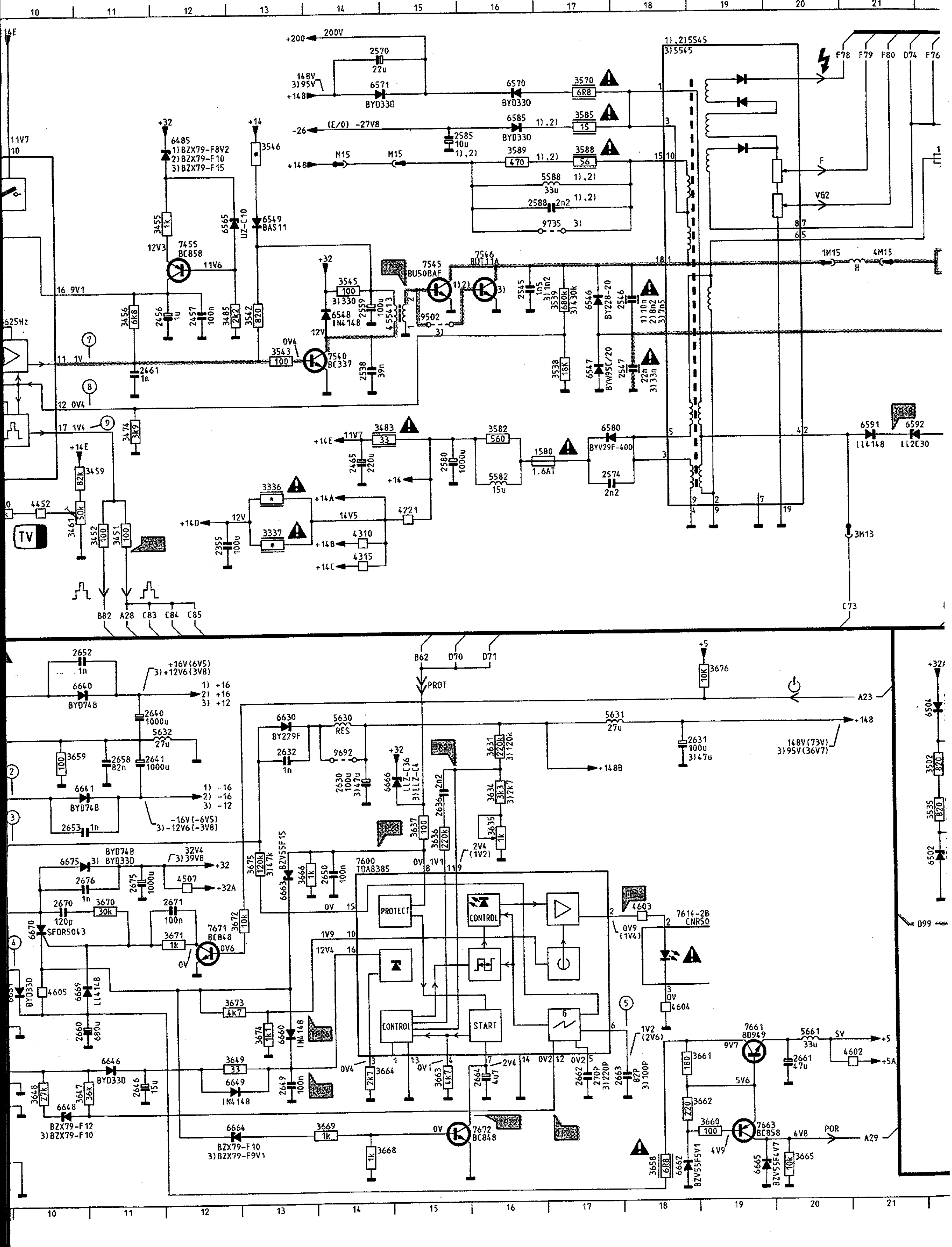
15625Hz
50Hz
+14E
11V7
D81
D99
D77
FFB
BC1
220V
M11
DEMAG.
1F32
2F32
1F10
2F10
2M10
1M10
2F33
2M28
3F33
1M28
1F33
3M28
284V
3) 286V
5625
7614-2A
CNR50
13V1
(5V5)
7625
BUT12AF
-3V
(-0V5)
4V6
(-0V7)
-1V
(2V8)
(...V)
2607
1n

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

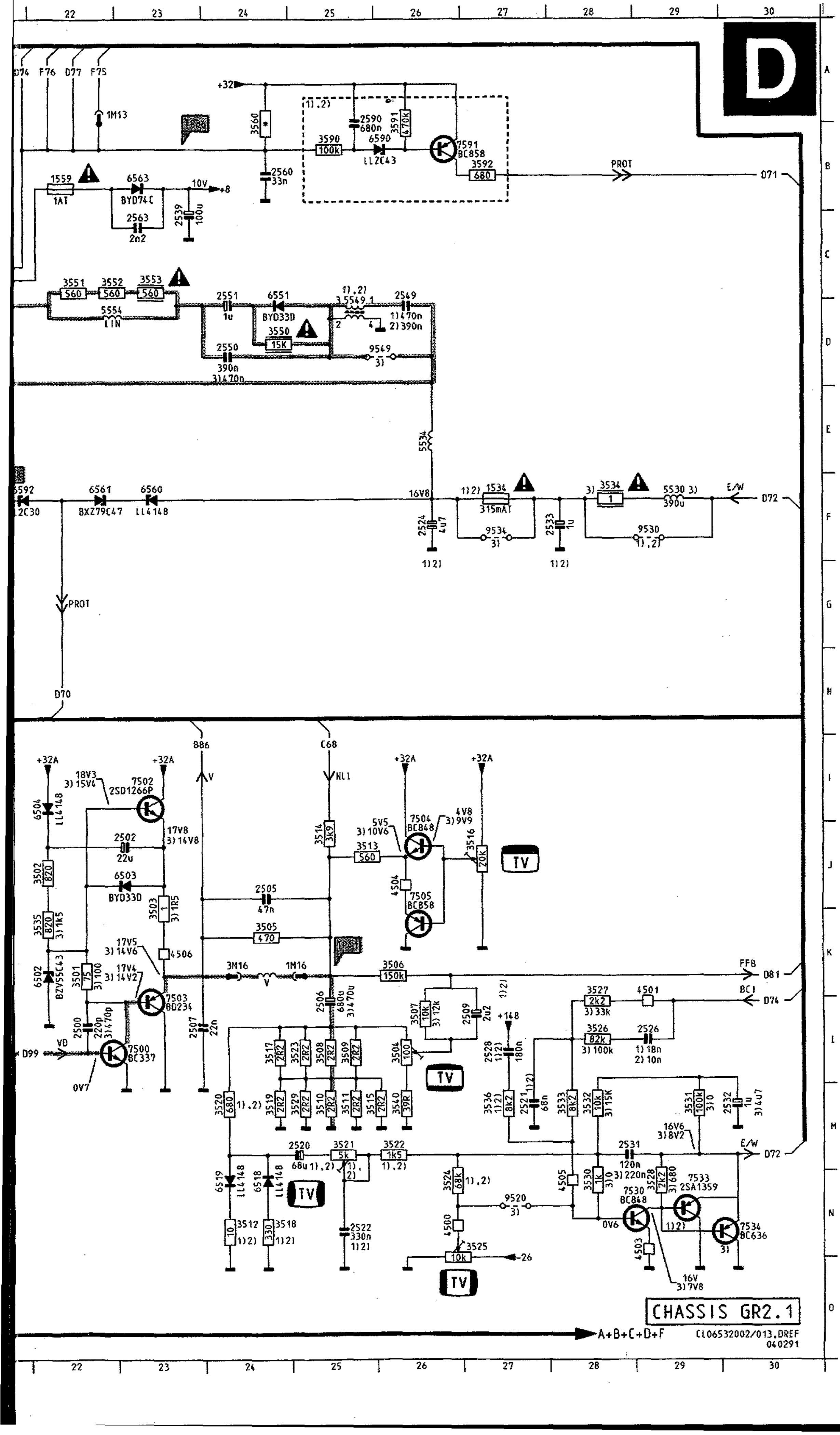
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) 25"/28" BLACK LINE
2) 25"/28" NON BLACK LINE
3) 21"

*	1)	2)	3)
2460	4n7	1n	10n
3336	22	27	15
3337	22	27	15
3467	2M2	2M5	1M3
3546	1	5R6	39
3560	16k	20k	33k
3626	180	360	360
3627	-	360	360


10
11
12
13
14
15
16
17
18
19
20
21
14E
+200
200V
2570
22u
148V
3) 95V
+148
6571
BYD330
6570
BYD330
3570
6R8
1), 2) 5545
3) 5545
F78
F79
F80
D74
F76
-26
(E/0) -27V8
6585
BYD330
1), 2)
3585
15
2585
10u
+148
M15
3589
470
3588
56
5588
33u
2588
2n2
9735
3)
F
VG2
+32
6485
1) BZX79-F8V2
2) BZX79-F10
3) BZX79-F15
+14
3546
11V7
10
3455
1k
6565
UZ-C10
6549
BAS11
12V3
7455
BC858
11V6
16 9V1
3456
6K8
2456
1u
2457
100n
3485
2K2
3542
820
625Hz
7
11 1V
2461
1n
8
12 0V4
9
17 1V4
3474
3K9
+14E
3459
82k
4452
50k
3461
3452
100
3451
100
TV
B82
A28
C83
C84
C85
3545
100
3) 330
2559
100u
6548
1N4148
12V
0V4
3543
100
7540
BC337
2538
39n
7545
BU508AF
7546
BUT11A
5541
9502
2545
1n5
3) 1n2
3539
680k
3) 430k
6546
BY228-20
2546
1) 10n
2) 8n2
3) 7n5
3538
18K
6547
BYW95C/20
2547
22n
3) 33n
1M15
4M15
H
+14E
11V7
3483
33
2465
220u
+14
2580
1000u
3582
560
5582
15u
1580
1.6AT
6580
BYV29F-400
2574
2n2
6591
LL4148
6592
LL2C30
3M13
C73
3336
3337
+14A
14V5
4221
+14D
12V
2355
100u
+14B
4310
+14C
4315
2652
1n
6640
BYD74B
+16V (6V5)
3) +12V6 (3V8)
1) +16
2) +16
3) +12
2640
1000u
5632
27u
3659
100
2658
82n
2641
1000u
2
6641
BYD74B
1) -16
2) -16
3) -12
-16V (-6V5)
3) -12V6 (-3V8)
3
2653
1n
B62
D70
D71
PROT
+5
3676
10K
A23
6630
BY229F
5630
RES
5631
27u
+148
2631
100u
3) 47u
148V (73V)
3) 95V (36V7)
2632
1n
9692
+32
2630
100u
3) 47u
6666
LLZ-C36
3) LLZ-C4
2636
2n2
3631
220k
3) 120k
+148B
3634
3K3
3) 2K7
3635
1K
3637
100
3636
220K
2V4
(1V2)
BYD74B
BYD330
6675
32V4
3) 39V8
+32
2676
1n
2675
1000u
4507
+32A
2670
120p
3670
30k
2671
100n
3675
120K
3) 47k
6663
BZV55F15
3666
1K
2650
100n
7600
TDA8385
0V
1V1
8
11
9
PROTECT
CONTROL
6670
SFOR5043
3671
1K
7671
BC848
0V6
3672
10K
0V
0V
15
1V9
10
12V4
16
4603
7614-2B
CNR50
0V9
(1V4)
2
4
6669
LL4148
4605
6661
BYD330
3673
4K7
3674
1K1
6660
1N4148
CONTROL
START
5
3
0V
4604
1V2
(2V6)
6
2660
680u
6646
BYD330
2646
15u
3649
33
6649
1N4148
2649
100n
0V4
3664
2K7
13
0V1
3663
4K7
7
2V4
2664
4u7
14
0V2
12
0V2
5
2662
270P
3) 220P
2663
82P
3) 100P
3661
180
7661
BD949
9V7
5661
33u
5V
+5
2661
47u
4602
+5A
5V6
3648
27K
3647
36K
6648
BZX79-F12
3) BZX79-F10
6664
BZX79-F10
3) BZX79-F9V1
3669
1k
3668
1K
7672
BC848
3658
6R8
6662
BZV55F5V1
3662
220
3660
100
7663
BC858
4V9
4V8
POR
A29
6665
BZV55F4V7
3665
10K
+32A
6504
3502
820
3535
820
6502
D99
TP31
TP33
TP34
TP36
TP21
TP23
TP24
TP25
TP26
TP22
TP32

Synchronization / Synchronisation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22 23 24 25 26 27 28 29 30
A B C D E F G H I J K L M N O
D74 F76 D77 F75
1M13
+32
3560 *
2560 33n
1) 2)
2590 680n
3591 470k
3590 100k
6590 LL2C43
7591 BC858
3592 680
PROT
D71
1559 1AT
6563 BYD74C
10V +8
2563 2n2
2539 100u
3551 560 3552 560 3553 560
5554 LIN
2551 1u
6551 BYD33D
3550 15K
1) 2) 3 5549 1 2 4
2549 1) 470n 2) 390n
2550 390n 3) 470n
9549 3)
5534
5592 L2C30
6561 BXZ79C47
6560 LL4148
16V8
1) 2) 1534 315mAT
2524 4u7
9534 3)
2533 1u
3) 3534 1
9530 1) 2)
5530 3) 390u
E/W
D72
PROT
D70
B86 C68
+32A
6504 LL4148
18V3 3) 15V4
7502 2SD1266P
17V8 3) 14V8
2502 22u
3502 820
6503 BYD33D
3503 1 3) 1R5
3535 820 3) 1K5
17V5 3) 14V6
4506
17V4 3) 14V2
6502 BZV55C43
3501 75 3) 100
7503 BD234
2500 220p 3) 470p
VD
D99
7500 BC337
0V7
V
2507 22n
2505 47n
3505 470
3M16 1M16
NLL
3514 3K9
3513 560
5V5 3) 10V6
7504 BC848
4V8 3) 9V9
3516 20k
TV
4504
7505 BC858
3506 150k
FFB
D81
2506 680u 3) 470u
3507 10k 3) 12k
2509 2u2
1) 2)
3517 2R2 3523 2R2 3508 2R2 3509 2R2
3504 100
3520 680 1),2)
3519 2R2 3529 2R2 3510 2R2 3511 2R2 3515 2R2 3540 39R
+14B
2528 1) 2) 180n
3536 1) 2) 8K2
2521 68n 1) 2)
3527 2K2 3) 33k
4501
BCI
D74
3526 82k 3) 100k
2526 1) 18n 2) 10n
3533 8K2
3532 10k 3) 15K
3531 100k 3) 0
2532 1u 3) 4u7
16V6 3) 8V2
2520 68u 1),2)
3521 5k 1),2)
3522 1K5 1),2)
2531 120n 3) 220n
E/W
D72
6519 LL4148
6518 LL4148
3524 68k 1),2)
4505
3530 1k
3528 2K2 3) 680
7533 2SA1359
3512 10 1) 2)
3518 330 1) 2)
2522 330n 1) 2)
9520 3)
4500
7530 BC848
0V6
1) 2)
7534 BC636 3)
3525 10k
-26
4503
16V 3) 7V8
CHASSIS GR2.1
A+B+C+D+F
CL06532002/013.DREF 040291

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2458	A 9	3511	M25	5625	I 8
2459	G 8	3512	N24	5630	I14
2460	H 8	3513	J25	5631	I17
2461	E11	3514	J25	5632	J12
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2466	B 7	3517	L24	6502	K22
2467	B 8	3518	N24	6503	J23
2468	B 6	3519	M24	6504	I22
2469	B 5	3520	M24	6518	N24
2470	C 5	3521	M25	6519	N24
2471	G 6	3522	M26	6546	D17
2473	G 6	3523	L25	6547	E17
2475	G 7	3524	N26	6548	D14
2500	L22	3525	N27	6549	C13
2502	J23	3526	L28	6551	D24
2505	J24	3527	L28	6560	F23
2506	L25	3528	N29	6561	F22
2507	L23	3529	M25	6563	B23
2509	L27	3530	N28	6565	C13
2520	M25	3531	M29	6570	A16
2521	M27	3532	M28	6571	A15
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2524	F26	3534	F28	6585	B16
2526	L29	3535	K22	6590	B26
2528	L27	3536	M27	6591	F21
2531	M28	3538	E17	6592	F21
2532	M30	3539	D17	6602	I 5
2533	F28	3540	M26	6603	I 6
2538	E14	3542	D13	6604	J 5
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2546	D18	3546	B13	6611	N 1
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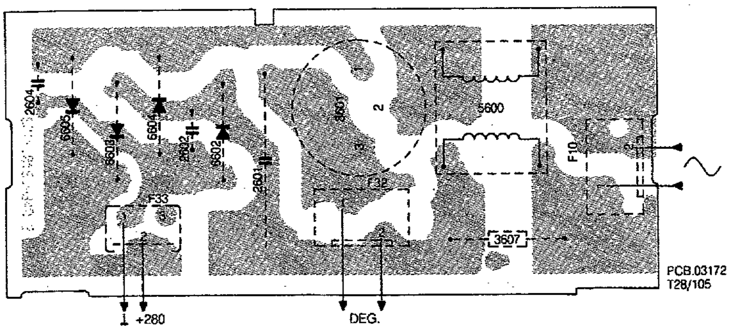
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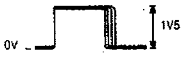

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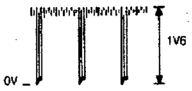

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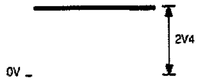

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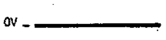

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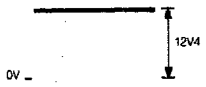

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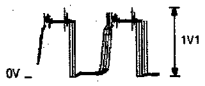

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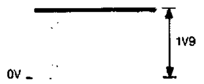

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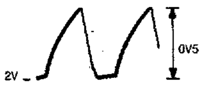

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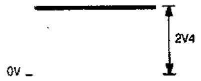

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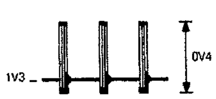

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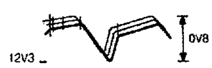

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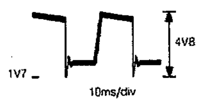

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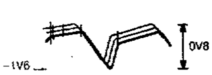

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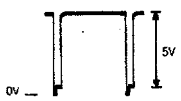

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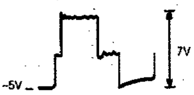

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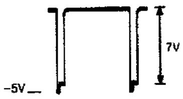

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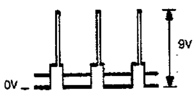

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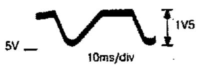

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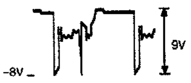

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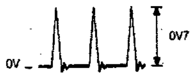

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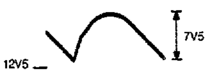

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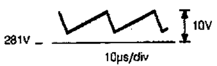

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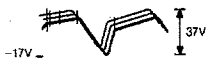

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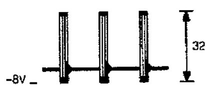

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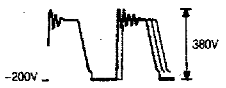

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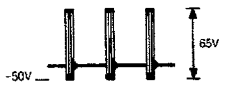

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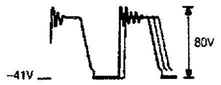

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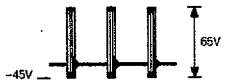

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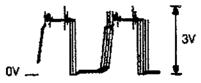

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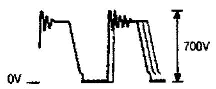

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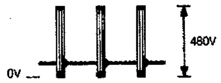

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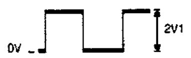

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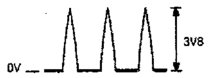

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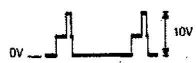

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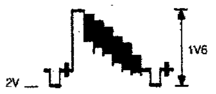

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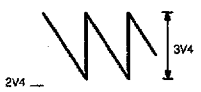

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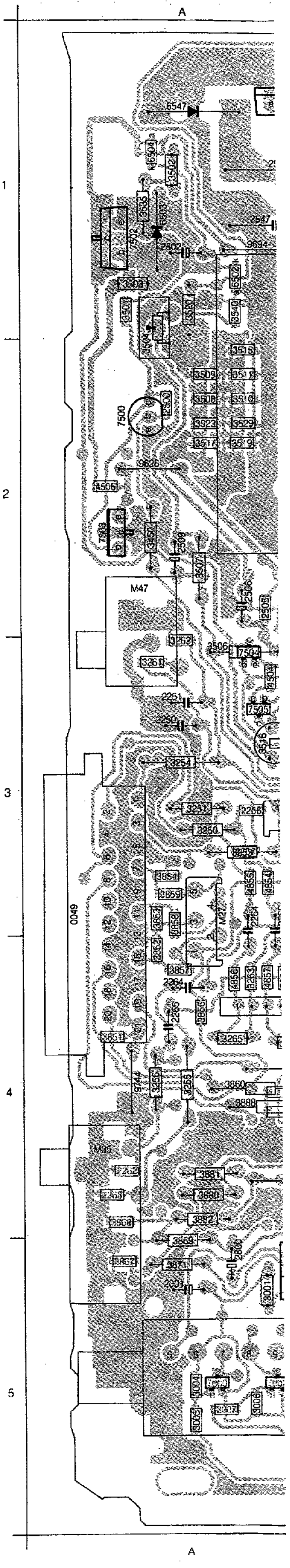
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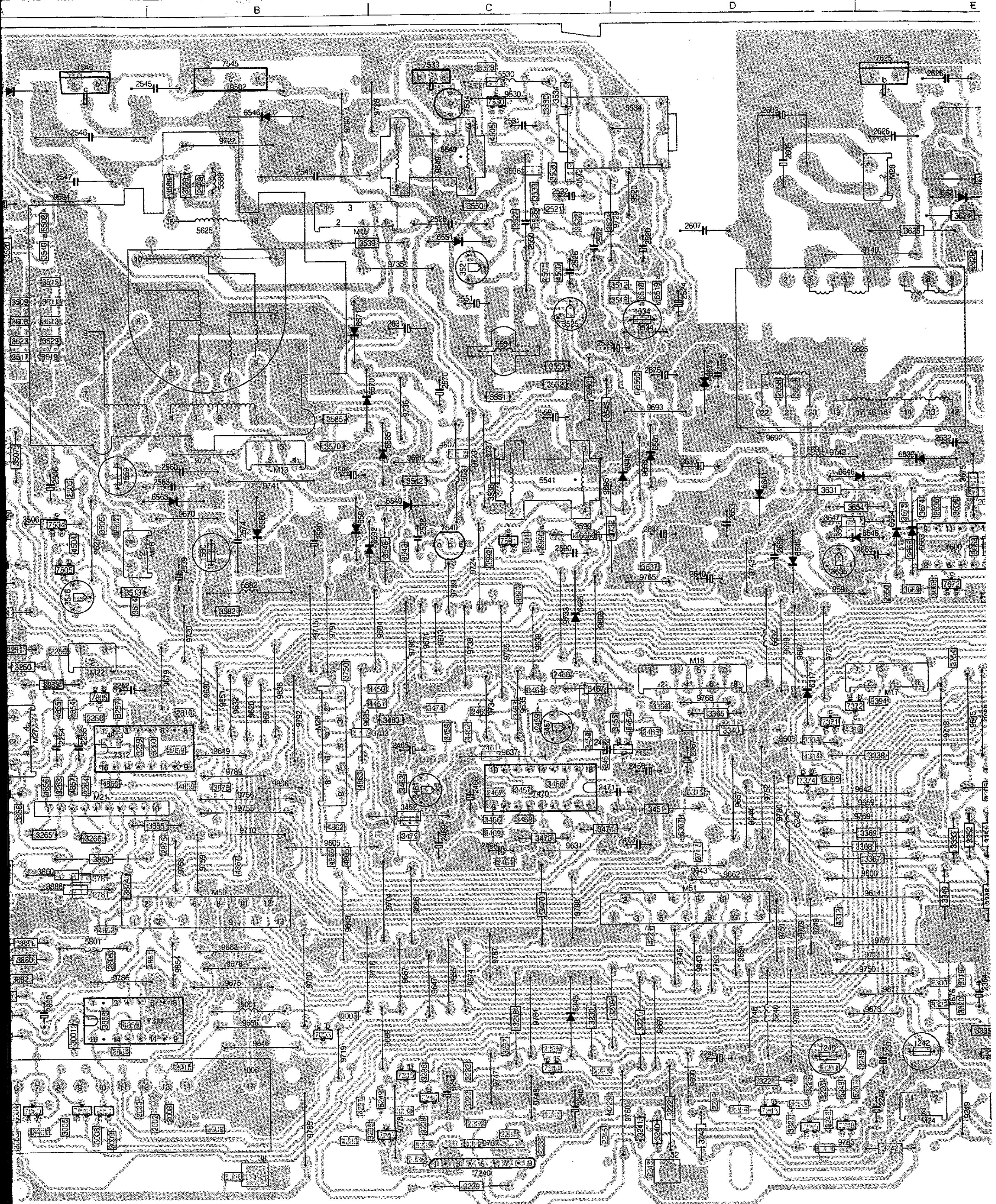
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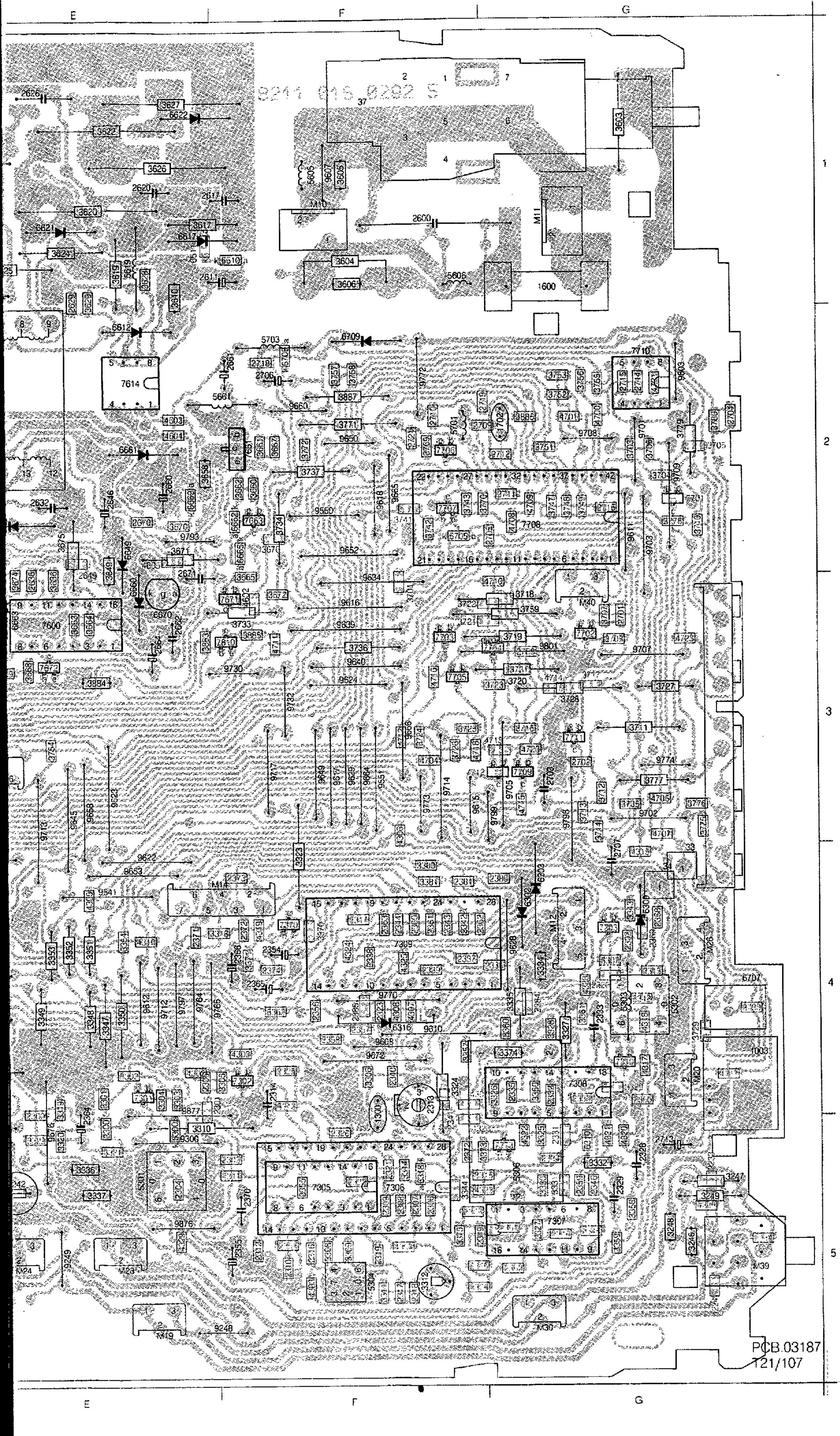

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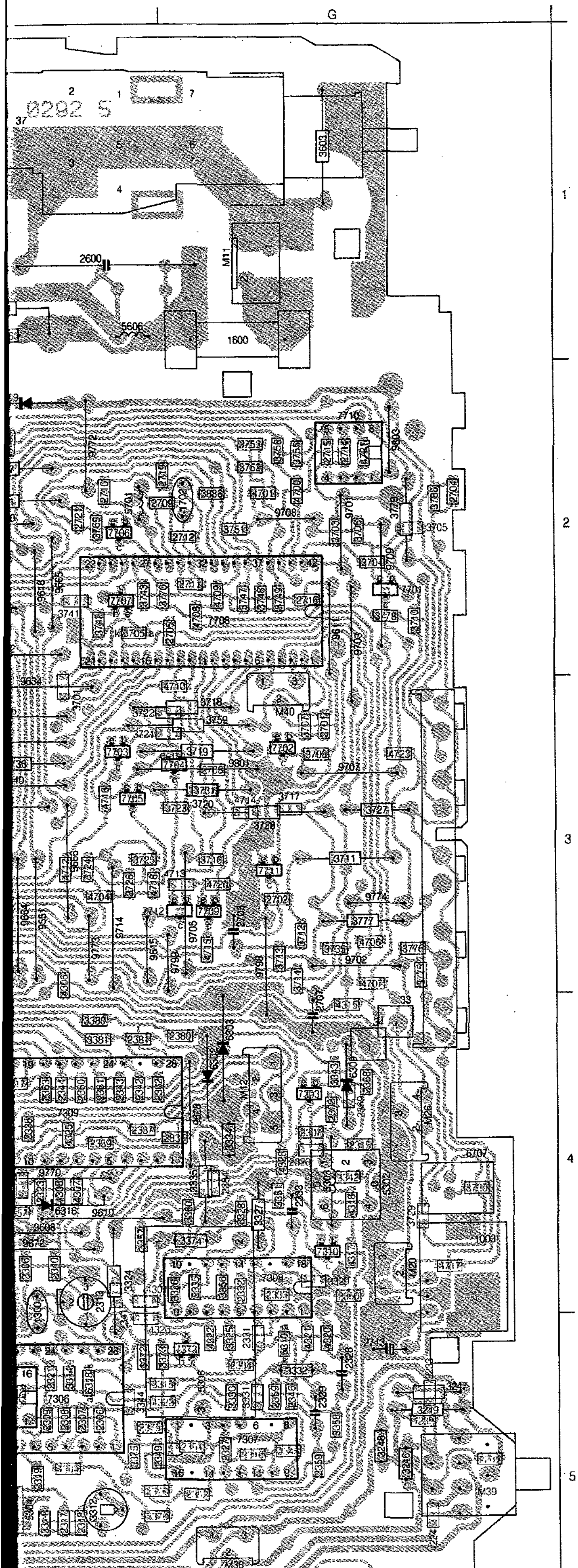

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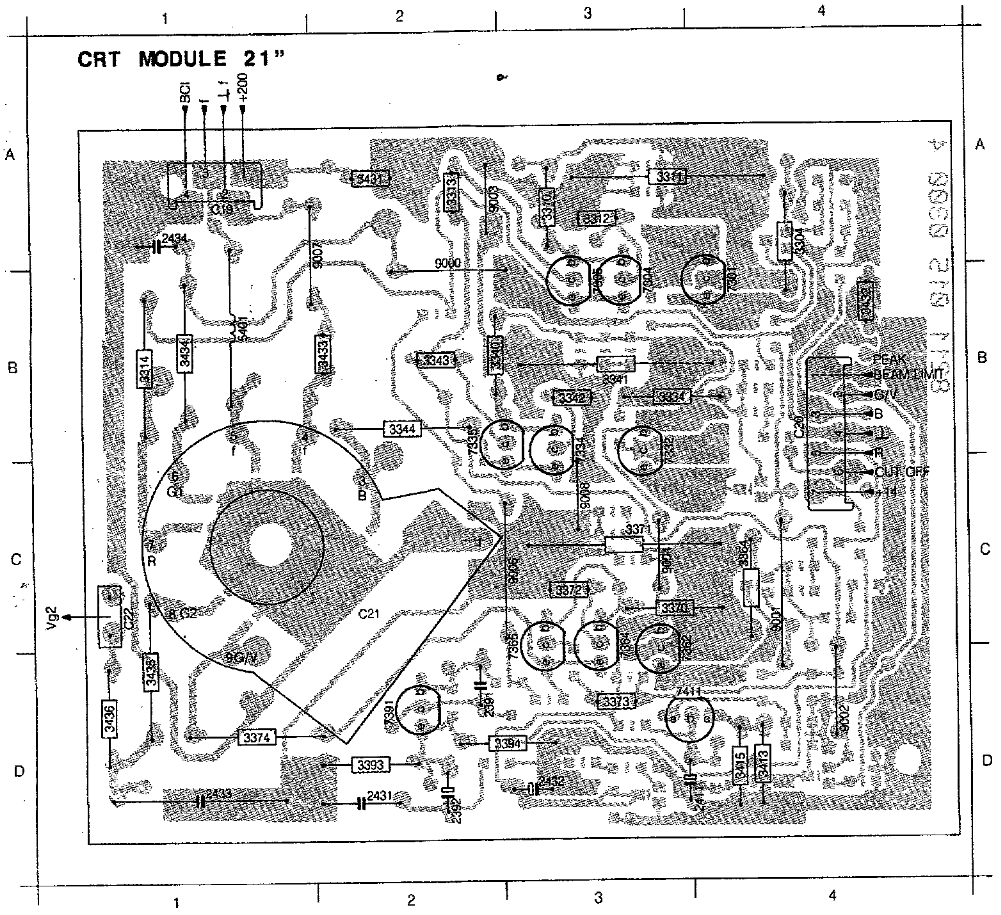
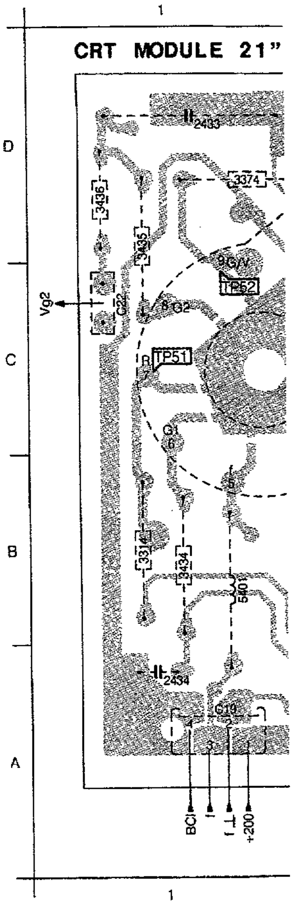
9639	3G
9640	3G
9641	4G
9642	4G
9643	4G
9644	4G
9645	3G
9646	5G
9647	5G
9648	4G
9649	3G
9650	2G
9651	3G
9652	2G
9653	4G
9654	4G
9655	4G
9656	5G
9657	4G
9658	3G
9659	4G
9660	2G
9662	4G
9663	4G
9664	3G
9665	2G
9666	3G
9668	2G
9669	3G
9670	3G
9671	3G
9672	4G
9673	5G
9674	4G
9675	4G
9676	5G
9677	5G
9678	4G
9679	3G
9681	3G
9684	3G
9685	3G
9686	4G
9687	4G
9688	5G
9690	5G
9691	3G
9692	2G
9693	2G
9694	1G
9695	2G
9696	2G
9697	3G
9699	3G
9700	4G
9701	2A
9702	3A
9703	2A
9704	4G
9705	3A
9707	3A
9708	2A
9709	2A
9710	4G
9711	4G
9712	4G
9713	3G
9714	3G
9715	3G
9717	3G
9718	4G
9719	5G
9720	3G
9721	3G
9723	2G
9724	3G
9725	3G
9727	1G
9728	1G
9729	1G
9730	3G
9732	3G
9733	3G
9734	3G
9735	1G
9736	2G
9737	2G
9738	3G
9739	3G
9740	1G
9741	2G
9742	2G
9743	3G
9744	4G
9745	4G
9746	5G
9747	5G
9748	5G
9749	4G
9750	4G
9751	4G
9752	4G
9753	4G
9755	4G
9756	4G
9757	5G
9758	4G
9759	4G
9760	5G
9764	4G
9765	3G
9766	4G
9768	3G
9769	4G
9770	4G
9772	2G
9773	3G
9774	3A
9775	2G
9777	4G
9778	5G
9779	4G
9780	4G
9781	5G
9783	5G
9784	5G
9785	5G
9786	4G
9787	4G
9788	4G
9789	4G
9790	1G
9791	3G
9792	3G
9793	2G
9796	3G
9797	4G
9798	3A
9799	3A
9801	3A
9803	2A
9806	4G
9843	4G
9854	4G
9869	5G
9876	5G
9877	4G

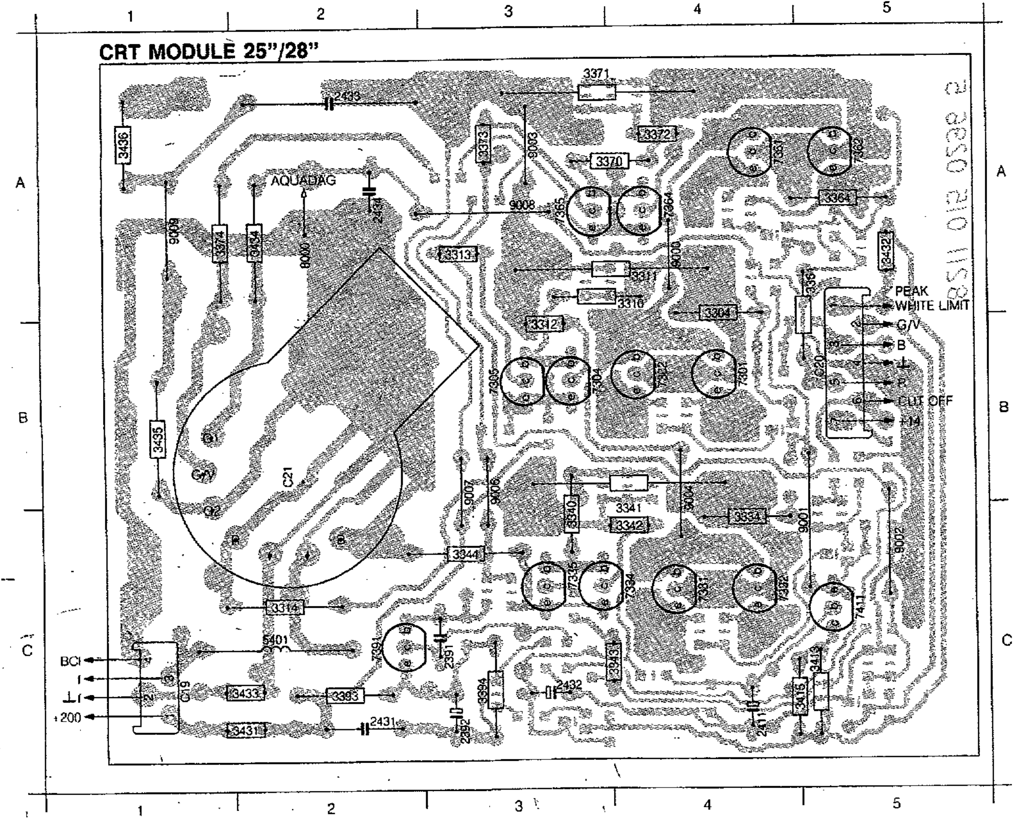
Picture tube module 21" / Bildröhren Modul 21" / Module support tube imag


CRT MODULE 21"
BCI
f
⊥f
+200
Vg2
C19
C20
C21
C22
PEAK BEAM LIMIT
G/V
B
⊥
R
CUT OFF
+14
G1
G2
9G/V
5401
1
2
3
4
A
B
C
D

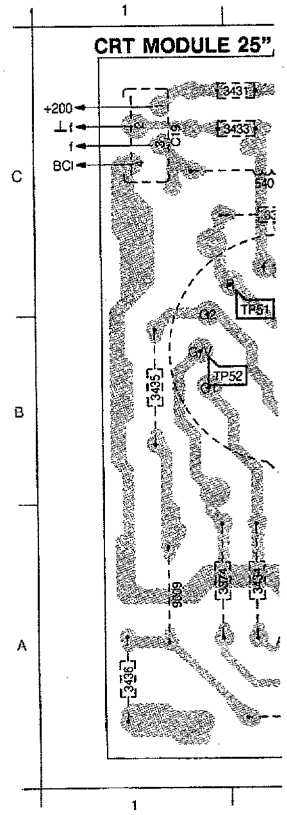
C19	A1
C20	B4
C21	C2
C22	C1
2301	A4
2331	B4
2361	C4
2391	D2
2392	D2
2411	D4
2412	D4
2421	D4
2431	D2
2432	D3
2433	D1
2434	A1
3301	B4
3302	A4
3303	A4
3304	A4
3310	A3
3311	A3
3312	A3
3313	A2
3314	B1
3315	A3
3316	A3
3331	B4
3332	B4
3333	B4
3334	B3
3340	B3
3341	B3
3342	B3
3343	B2
3344	B2
3345	D3
3361	C4
3362	C4
3363	C4
3364	C4
3370	C3
3371	C3
3372	C3
3373	D3
3374	D1
3375	C3
3376	C3
3377	C3
3391	D2
3392	D2
3393	D2
3394	D2
3395	D3
3396	B3
3397	B3
3398	B3
3411	D3
3412	D4
3413	D4
3414	D4
3415	D4
3421	D4
3422	D4
3423	D3
3431	A2
3432	B4
3433	B2
3434	B1
3435	D1
3436	D1
4000	C4
4002	D4
4005	D3
4006	C4
4009	B3
4010	B3
4011	B4
4012	D2
4014	D3
5401	B1
6301	B2
6331	C2
6345	D3
6361	D3
6421	D4
7301	B4
7303	A4
7304	B3
7305	B3
7332	C3
7333	C4
7334	C3
7335	B2
7345	D3
7362	D3
7363	C4
7364	D3
7365	D3
7391	D2
7411	D3
7421	D4
9000	B2
9001	C4
9002	D4
9003	A2
9004	C3
9006	C3
9007	A2
9008	C3


CRT MODULE 21"
Vg2
TP51
TP52
9G/V
BCI
f
⊥f
+200
1
A
B
C
D

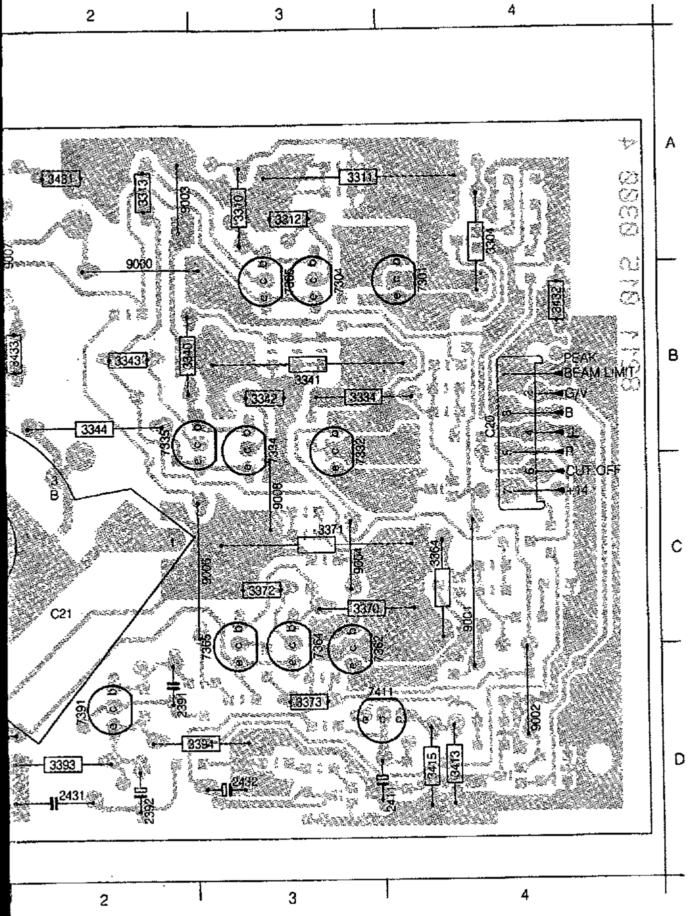
Picture tube module 25"/28" / Bildröhren Modul 25"/28" / Module support tu


CRT MODULE 25"/28"
AQUADAG
BCI
f
⊥f
+200
C19
C20
C21
PEAK
WHITE LIMIT
G/V
B
⊥
R
CUT OFF
+14
G1
G2
5401
1
2
3
4
5
A
B
C

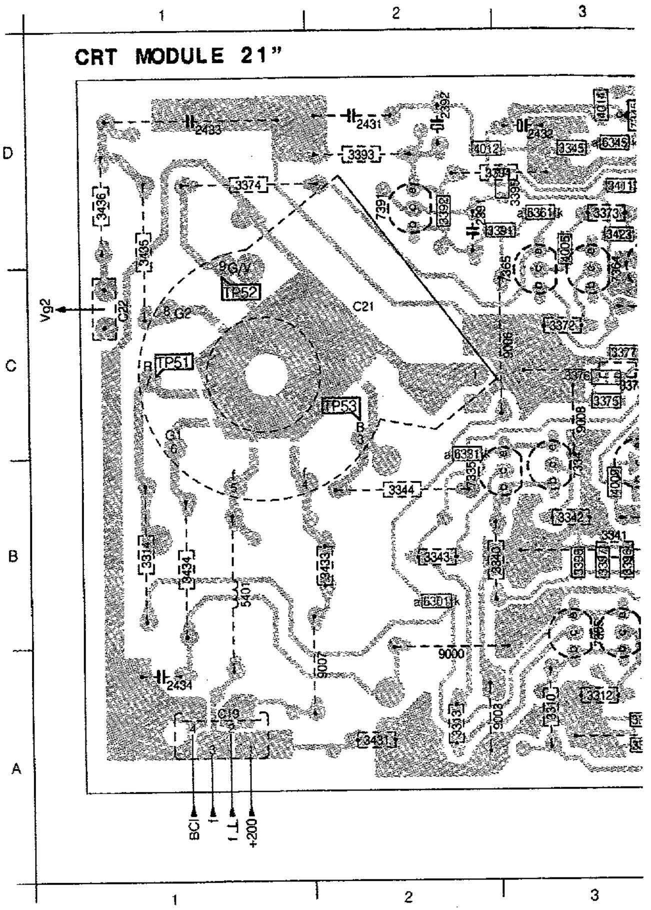
C19	C1
C20	B5
C21	B2
2301	B4
2331	C5
2361	A5
2391	C3
2392	C3
2411	C4
2412	C5
2421	C5
2431	C2
2432	C3
2433	A2
2434	A2
3301	B4
3302	B4
3303	A4
3304	B4
3308	B4
3309	B4
3310	A4
3311	A4
3312	B3
3313	A3
3314	C2
3315	B3
3316	B4
3331	B5
3332	C5
3333	B5
3334	C4
3338	C4
3339	C4
3340	C3
3341	C4
3342	C4
3343	C4
3344	C3
3345	C3
3361	A5
3362	A5
3363	A5
3364	A5
3368	A4
3369	A4
3370	A3
3371	A3
3372	A4
3373	A3
3374	A1
3375	A3
3376	A4
3377	A4
3391	C3
3392	C3
3393	C2
3394	C3
3395	C3
3396	B4
3397	B3
3398	B4
3411	C4
3413	C5
3414	C5
3415	C5
3421	C5
3422	C5
3423	C3
3431	C1
3432	A5
3433	C1
3434	A2
3435	B1
3436	A1
4000	B5
4002	C5
4003	C3
4005	C3
4007	B3
4008	A3
4008	C4
4011	A4
5401	C2
6301	B3
6331	C3
6345	C3
6361	A3
6411	C4
6421	C5
7301	B4
7302	B4
7303	B4
7304	B3
7305	B3
7331	C4
7332	C4
7333	C5
7334	C4
7335	C3
7345	C3
7361	A4
7362	A5
7363	A4
7364	A4
7365	A3
7391	C2
7411	C5
7421	C5
8000	A2
9000	A4
9001	C5
9002	C5
9003	A3
9004	C4
9006	B3
9007	B3
9008	A3
9009	A1


CRT MODULE 25"
+200
⊥f
f
BCI
C19
TP51
TP52
1
A
B
C

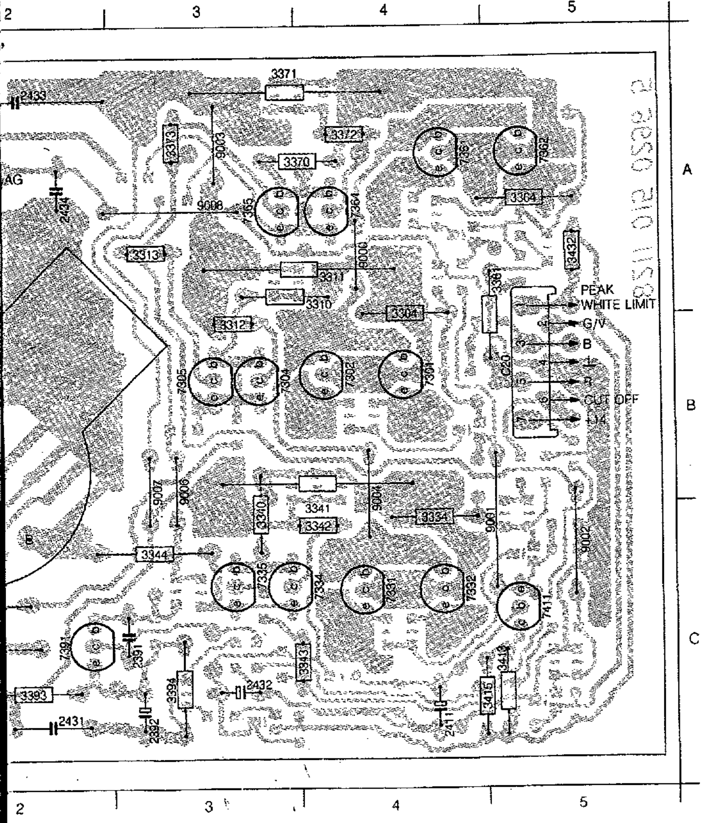
dule 21” / Bildröhren Modul 21” / Module support tube image 21”


2
3
4
A
B
C
D
3431
3313
9003
3310
3311
3312
3301
9000
3304
3343
3340
3341
3342
3334
3344
7335
7334
7332
3432
PEAK
BEAM LIMIT
G/V
B
R
CUT OFF
+14
C20
9006
3371
9005
9004
3364
3372
3370
9001
C21
7365
7363
7362
7391
3373
7411
2391
3394
9002
3393
3415
3413
2432
2411
2431
2392

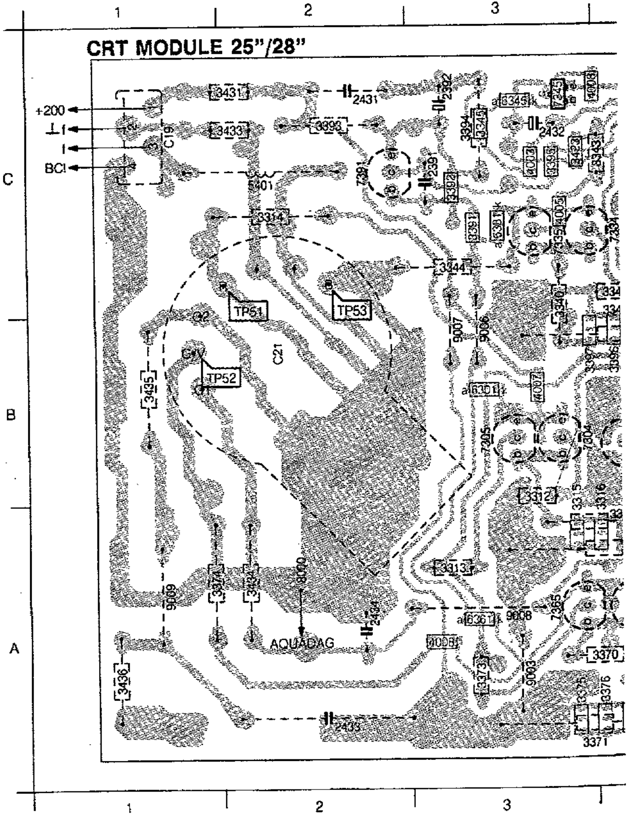
C19	A1
C20	B4
C21	C2
C22	C1
2301	A4
2331	B4
2361	C4
2391	D2
2392	D2
2411	D4
2412	D4
2421	D4
2431	D2
2432	D3
2433	D1
2434	A1
3301	B4
3302	A4
3303	A4
3304	A4
3310	A3
3311	A3
3312	A3
3313	A2
3314	B1
3315	A3
3316	A3
3331	B4
3332	B4
3333	B4
3334	B3
3340	B3
3341	B3
3342	B3
3343	B2
3344	B2
3345	D3
3361	C4
3362	C4
3363	C4
3364	C4
3370	C3
3371	C3
3372	C3
3373	D3
3374	D1
3375	C3
3376	C3
3377	C3
3391	D2
3392	D2
3393	D2
3394	D2
3395	D3
3396	B3
3397	B3
3398	B3
3411	D3
3412	D4
3413	D4
3414	D4
3415	D4
3421	D4
3422	D4
3423	D3
3431	A2
3432	B4
3433	B2
3434	B1
3435	D1
3436	D1
4000	C4
4002	D4
4005	D3
4006	C4
4009	B3
4010	B3
4011	B4
4012	D2
4014	D3
5401	B1
6301	B2
6331	C2
6345	D3
6361	D3
6421	D4
7301	B4
7303	A4
7304	B3
7305	B3
7332	C3
7333	C4
7334	C3
7335	B2
7345	D3
7362	D3
7363	C4
7364	D3
7365	D3
7391	D2
7411	D3
7421	D4
9000	B2
9001	C4
9002	D4
9003	A2
9004	C3
9006	C3
9007	A2
9008	C3


CRT MODULE 21”
1
2
3
D
C
B
A
2433
2431
2392
3393
3374
3436
3435
Vg2
C22
G/V
TP52
G2
C21
TP51
TP53
G1
3344
3314
3434
5401
3433
9007
9006
9008
2434
C19
3431
BCI
+200
3391
6361
6391
6301
9000
3343
3340
3342
3313
9003
3310
3312

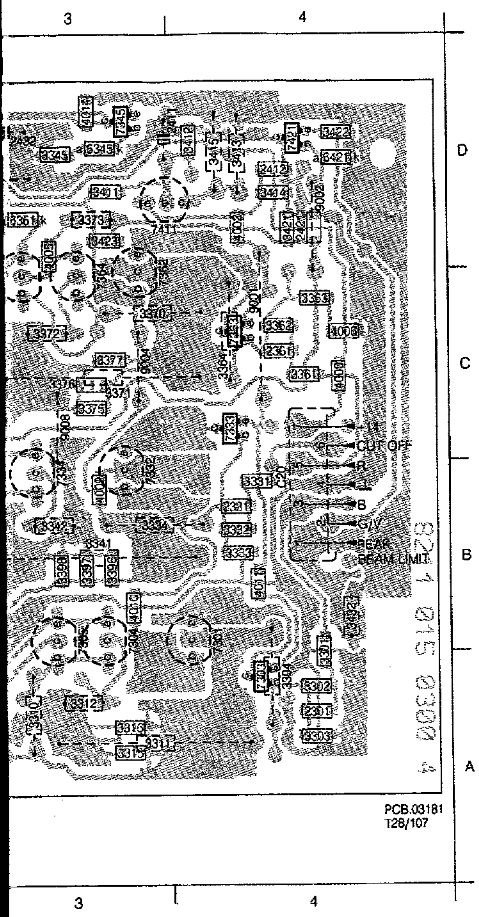
dule 25”/28” / Bildröhren Modul 25”/28” / Module support tube image 25”/28”


2
3
4
5
A
B
C
3371
2433
AG
2434
3313
9003
3372
3370
7361
7362
3364
9008
7365
7364
3313
3311
3310
9005
3432
3381
PEAK
WHITE LIMIT
G/V
B
R
CUT OFF
+14
C20
3312
3304
7305
7304
7302
7303
9007
9006
3340
3341
3342
9004
3334
9001
9002
3344
7335
7334
7331
7332
7411
7391
2391
3343
3394
2432
3393
2431
2392
2411
3416
3414

C19	C1
C20	B5
C21	B2
2301	B4
2331	C5
2361	A5
2391	C3
2392	C3
2411	C4
2412	C5
2421	C5
2431	C2
2432	C3
2433	A2
2434	A2
3301	B4
3302	B4
3303	A4
3304	B4
3308	B4
3309	B4
3310	A4
3311	A4
3312	B3
3313	A3
3314	C2
3315	B3
3316	B4
3331	B5
3332	C5
3333	B5
3334	C4
3338	C4
3339	C4
3340	C3
3341	C4
3342	C4
3343	C4
3344	C3
3345	C3
3361	A5
3362	A5
3363	A5
3364	A5
3368	A4
3369	A4
3370	A3
3371	A3
3372	A4
3373	A3
3374	A1
3375	A3
3376	A4
3377	A4
3391	C3
3392	C3
3393	C2
3394	C3
3395	C3
3396	B4
3397	B3
3398	B4
3411	C4
3413	C5
3414	C5
3415	C5
3421	C5
3422	C5
3423	C3
3431	C1
3432	A5
3433	C1
3434	A2
3435	B1
3436	A1
4000	B5
4002	C5
4003	C3
4005	C3
4007	B3
4008	A3
4008	C4
4011	A4
5401	C2
6301	B3
6331	C3
6345	C3
6361	A3
6411	C4
6421	C5
7301	B4
7302	B4
7303	B4
7304	B3
7305	B3
7331	C4
7332	C4
7333	C5
7334	C4
7335	C3
7345	C3
7361	A4
7362	A5
7363	A4
7364	A4
7365	A3
7391	C2
7411	C5
7421	C5
8000	A2
9000	A4
9001	C5
9002	C5
9003	A3
9004	C4
9006	B3
9007	B3
9008	A3
9009	A1


CRT MODULE 25”/28”
1
2
3
C
B
A
+200
BCI
C19
3431
3433
2431
3393
7391
5401
3314
3344
TP51
TP53
G2
C21
G/V
TP52
3435
9007
9006
6301
9009
3374
3434
8000
AQUADAG
3436
2435
6361
9008
3313
3373
9003
3370
3371

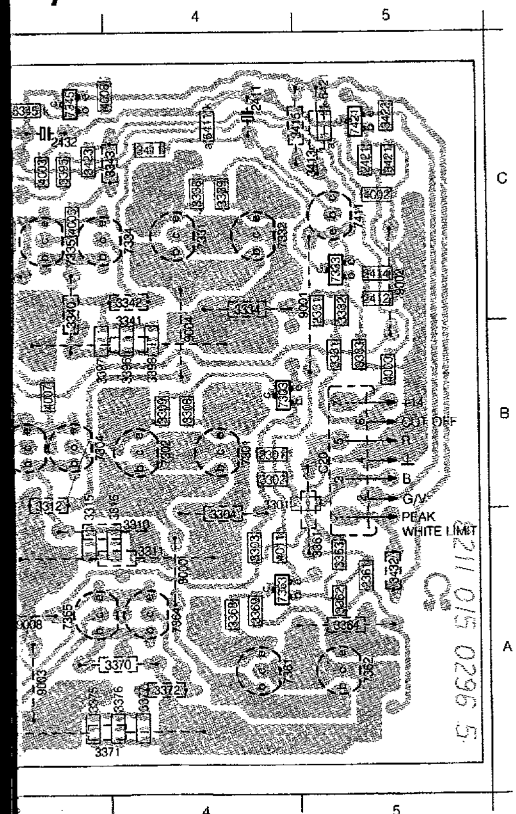
Picture tube module /



3
4
D
C
B
A
CUT OFF
R
B
G/V
PEAK
BEAM LIMIT
821 015 0300 4

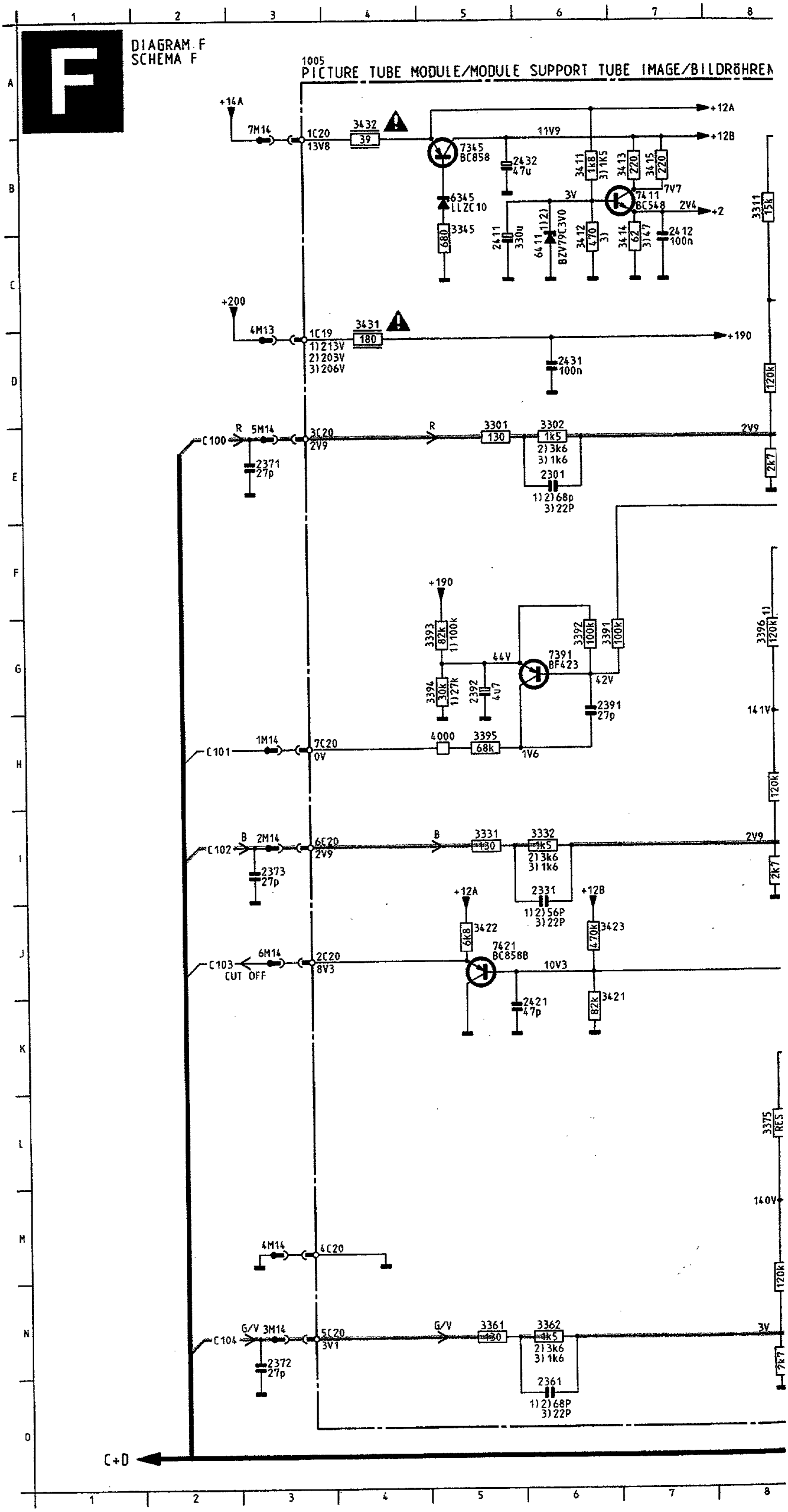
PCB.03181
T28/107

5"/28"



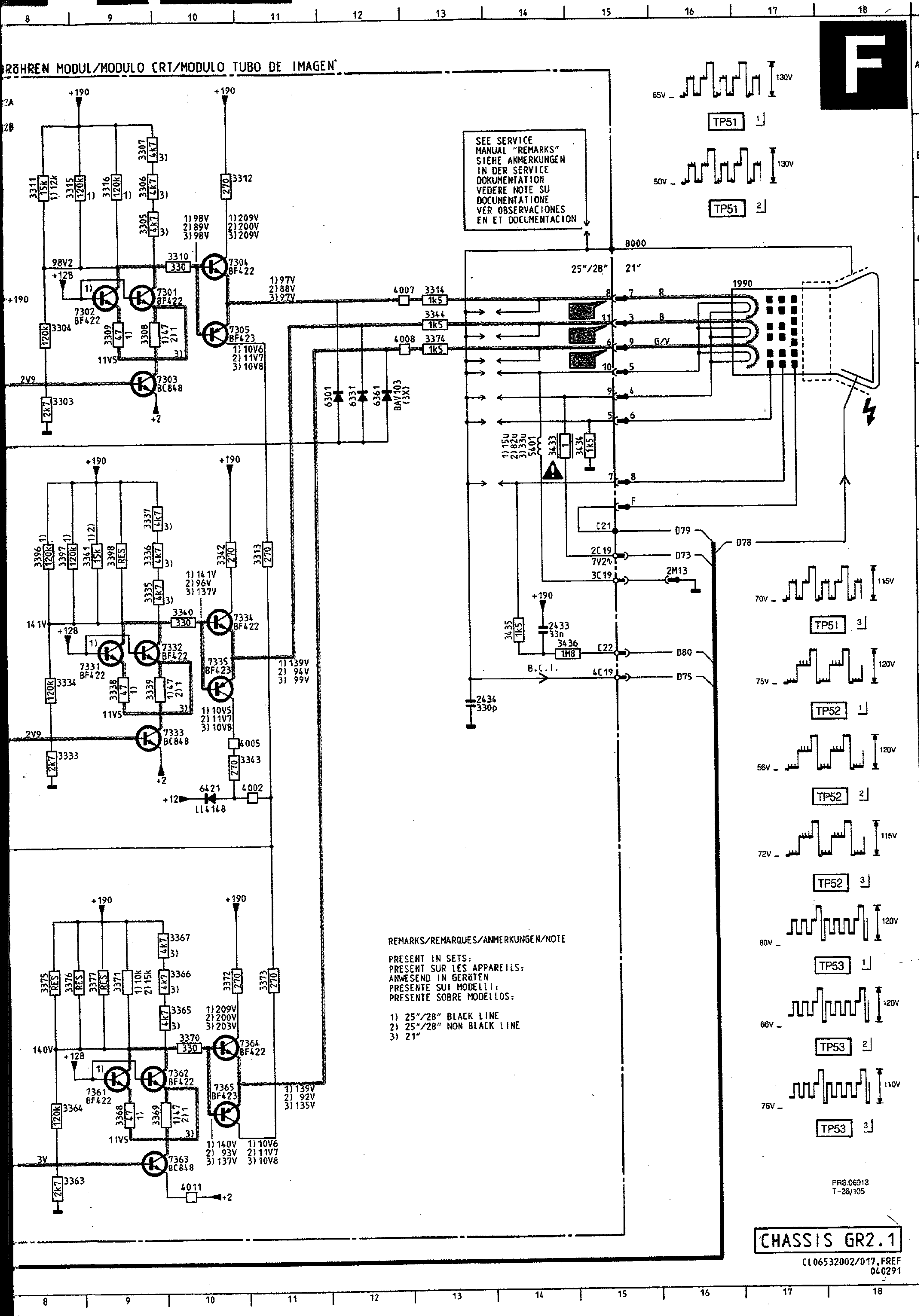
4
5
C
B
A
CUT OFF
R
B
G/V
PEAK
WHITE LIMIT
821 015 0296 5

PCB.03177
T28/106



F
DIAGRAM F
SCHEMA F
1005
PICTURE TUBE MODULE/MODULE SUPPORT TUBE IMAGE/BILDRÖHREN
+14A
7M14
1C20
13V8
3432
39
7345
BC858
+12A
+12B
11V9
2432
47u
6345
LLZC10
3345
680
2411
330u
6411
BZV79C3V0
3411
1k8
3) 1k5
3412
470
3413
220
3415
220
7411
BC548
3414
62
3) 47
2412
100n
2V4
+2
3V
7V7
3311
15k
+200
4M13
1C19
1) 213V
2) 203V
3) 206V
3431
180
+190
2431
100n
120k
R
5M14
C100
3C20
2V9
2371
27p
3301
130
3302
1k5
2) 3k6
3) 1k6
2301
1) 2) 68p
3) 22P
2k7
+190
3393
82k
1) 100k
3394
30k
1) 127k
2392
4u7
44V
7391
BF423
3392
100k
3391
100k
42V
2391
27p
3396 1)
120k
141V
1M14
C101
7C20
0V
4000
3395
68k
1V6
B
2M14
C102
6C20
2V9
2373
27p
3331
130
3332
1k5
2) 3k6
3) 1k6
2331
1) 2) 56P
3) 22P
+12A
+12B
3422
6k8
3423
470k
7421
BC858B
10V3
6M14
C103
CUT OFF
2C20
8V3
2421
47p
3421
82k
3375
RES
140V
4M14
4C20
G/V
3M14
C104
5C20
3V1
2372
27p
3361
130
3362
1k5
2) 3k6
3) 1k6
2361
1) 2) 68P
3) 22P
3V
2k7
C+D
1 2 3 4 5 6 7 8
A B C D E F G H I J K L M N O

Bildröhren Modul / Module support tube image


F
RÖHREN MODUL/MODULO CRT/MODULO TUBO DE IMAGEN
+190
+12B
98V2
2V9
11V5
+2
141V
140V
3V
TP51 1
TP51 2
TP52 1
TP52 2
TP52 3
TP53 1
TP53 2
TP53 3
TP51 3
65V
50V
70V
75V
56V
72V
80V
66V
76V
130V
115V
120V
110V
7301 BF422
7302 BF422
7303 BC848
7304 BF422
7305 BF423
7331 BF422
7332 BF422
7333 BC848
7334 BF422
7335 BF423
7361 BF422
7362 BF422
7363 BC848
7364 BF422
7365 BF423
1) 98V 2) 89V 3) 98V
1) 209V 2) 200V 3) 209V
1) 97V 2) 88V 3) 97V
1) 10V6 2) 11V7 3) 10V8
1) 141V 2) 96V 3) 137V
1) 139V 2) 94V 3) 99V
1) 10V5 2) 11V7 3) 10V8
1) 209V 2) 200V 3) 203V
1) 139V 2) 92V 3) 135V
1) 140V 2) 93V 3) 137V
4007 3314 1k5
3344 1k5
4008 3374 1k5
6301 6331 6361 BAV103 (3X)
8000
25"/28" 21"
1990
R B G/V
1) 15u 2) 82u 3) 33u 5401
3433 3434 1k5
C21 2C19 7V2 3C19 C22 4C19
D79 D78 D73 2M13 D80 D75
B.C.I.
3435 1k5
2433 33n
3436 1M8
2434 330p
6421 LL4148
4002 4005 4011
+12
PRS.06913 T-26/105
CHASSIS GR2.1
CL06532002/017.FREF 040291

SEE SERVICE MANUAL "REMARKS"
SIEHE ANMERKUNGEN IN DER SERVICE DOKUMENTATION
VEDERE NOTE SU DOCUMENTATIONE
VER OBSERVACIONES EN ET DOCUMENTACION

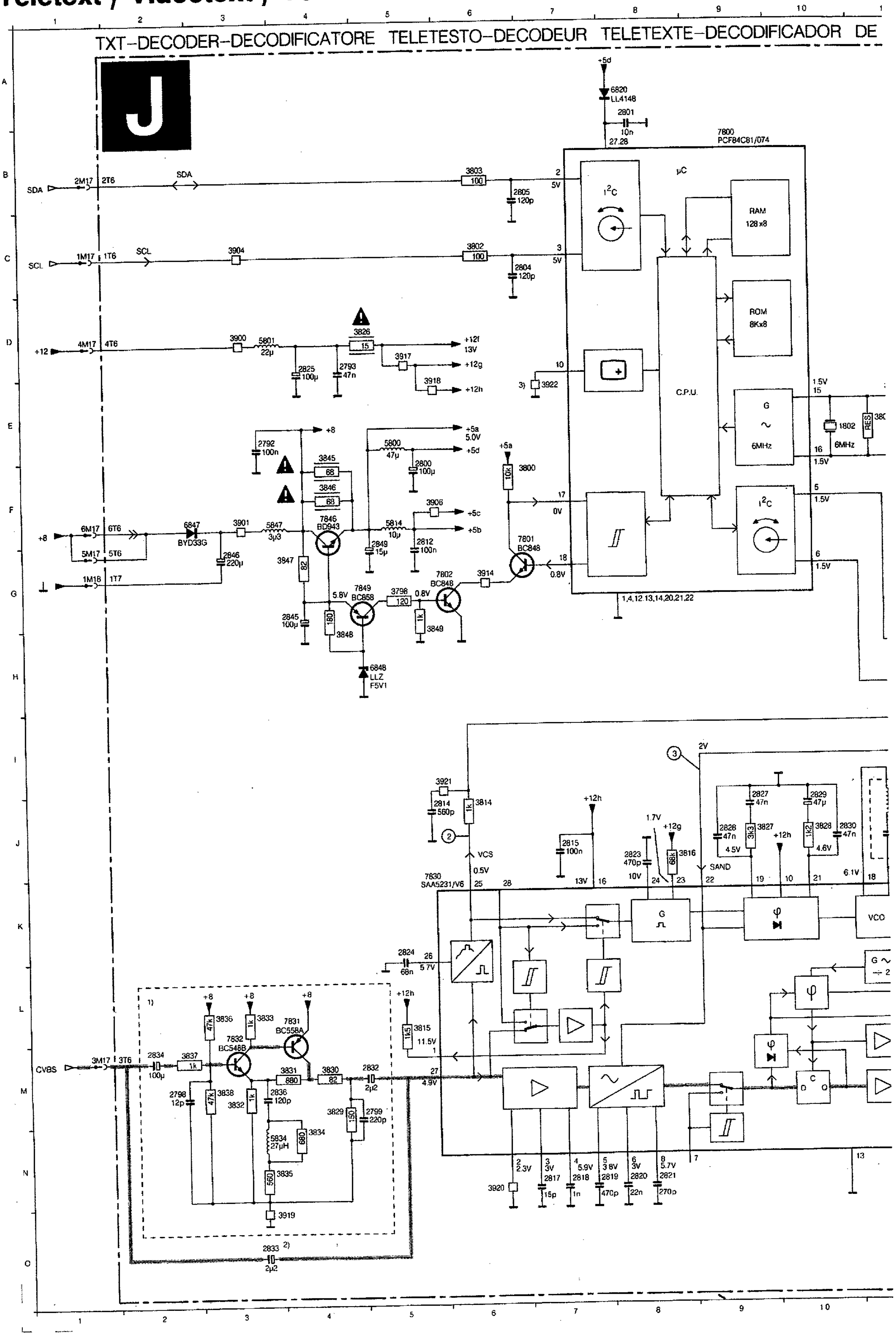
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) 25"/28" BLACK LINE
2) 25"/28" NON BLACK LINE
3) 21"

1005	A 3
1990	D17
2301	E 6
2331	I 6
2361	D 6
2371	E 3
2372	N 3
2373	I 3
2391	H 6
2392	G 5
2411	C 5
2412	C 7
2421	K 6
2431	D 6
2432	B 6
2433	H14
2434	I13
3301	E 5
3302	E 6
3303	E 8
3304	D 8
3305	C 9
3306	B 9
3307	B 9
3308	D 9
3309	D 9
3310	C10
3311	B 8
3312	B11
3313	G11
3314	D13
3315	B 9
3316	B 9
3331	I 5
3332	I 6
3333	I 8
3334	H 8
3335	G 9
3336	G 9
3337	F 9
3338	H 9
3339	H 9
3340	G10
3341	G 9
3342	G10
3343	I11
3344	D13
3345	B 5
3361	N 5
3362	N 6
3363	N 8
3364	M 8
3365	L10
3366	L10
3367	K10
3368	N 9
3369	N 9
3370	M10
3371	L 9
3372	L10
3373	L11
3374	D13
3375	L 8
3376	L 8
3377	L 9
3391	G 7
3392	G 6
3393	G 5
3394	G 5
3395	H 5
3396	G 8
3397	G 8
3398	G 9
3411	B 6
3412	C 6
3413	B 7
3414	C 7
3415	B 7
3421	K 6
3422	J 5
3423	J 6
3431	D 4
3432	A 4
3433	F14
3434	F15
3435	H14
3436	H14
4000	H 5
4002	J11
4005	I11
4007	D13
4008	D13
4011	N10
5401	F14
6301	E12
6331	E12
6345	B 5
6361	E12
6411	C 6
6421	J10
7301	D10
7302	D 9
7303	E10
7304	C10
7305	D10
7331	H 9
7332	H10
7333	I10
7334	H10
7335	H10
7345	B 5
7361	M 9
7362	M10
7363	N10
7364	M10
7365	M10
7391	G 6
7411	B 7
7421	J 5

Teletext / Videotext / Teletexte


TXT-DECODER-DECODIFICATORE TELETESTO-DECODEUR TELETEXTE-DECODIFICADOR DE
J
SDA
SCL
+12
+8
CVBS
2M17
2T6
1M17
1T6
4M17
4T6
6M17
6T6
5M17
5T6
1M18
1T7
3M17
3T6
3803
100
3802
100
3904
2805
120p
2804
120p
3900
5801
22µ
3826
15
+12f
13V
3917
+12g
3918
+12h
2825
100µ
2793
47n
+5d
6820
LL4148
2801
10n
27.28
7800
PCF84C81/074
µC
I²C
RAM
128x8
ROM
8Kx8
C.P.U.
G
6MHz
1802
6MHz
RES
3922
2792
100n
3845
68
3846
68
7846
BD943
6847
BYD33G
3901
5847
3µ3
2846
220µ
3847
82
+8
+5a
5.0V
5800
47µ
+5d
2800
100µ
3906
+5c
5814
10µ
+5b
2849
15µ
2812
100n
7849
BC858
5.8V
3798
120
0.8V
7802
BC848
3849
1k
180
3848
2845
100µ
6848
LLZ
F5V1
+5a
3800
10k
7801
BC848
3914
0V
0.8V
1,4,12,13,14,20,21,22
1.5V
3921
2814
560p
3814
1k
VCS
0.5V
7830
SAA5231/V6
2824
68n
5.7V
+12h
2815
100n
13V
2823
470p
10V
1.7V
+12g
3816
68k
SAND
2V
2827
47n
2829
47µ
2828
47n
3827
3k3
3828
1k2
2830
47n
4.5V
4.6V
6.1V
VCO
3815
1k5
11.5V
2834
100µ
3837
1k
3836
47k
3833
1k
7831
BC558A
7832
BC548B
3831
880
3830
82
2832
2µ2
4.9V
2798
12p
3838
47k
3832
1k
2836
120p
5834
27µH
3834
680
3829
150
2799
220p
3835
560
3919
2833
2µ2
2.3V
3V
5.9V
3.8V
3V
5.7V
3920
2817
15p
2818
1n
2819
470p
2820
22n
2821
270p
1)
2)
3)
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
1
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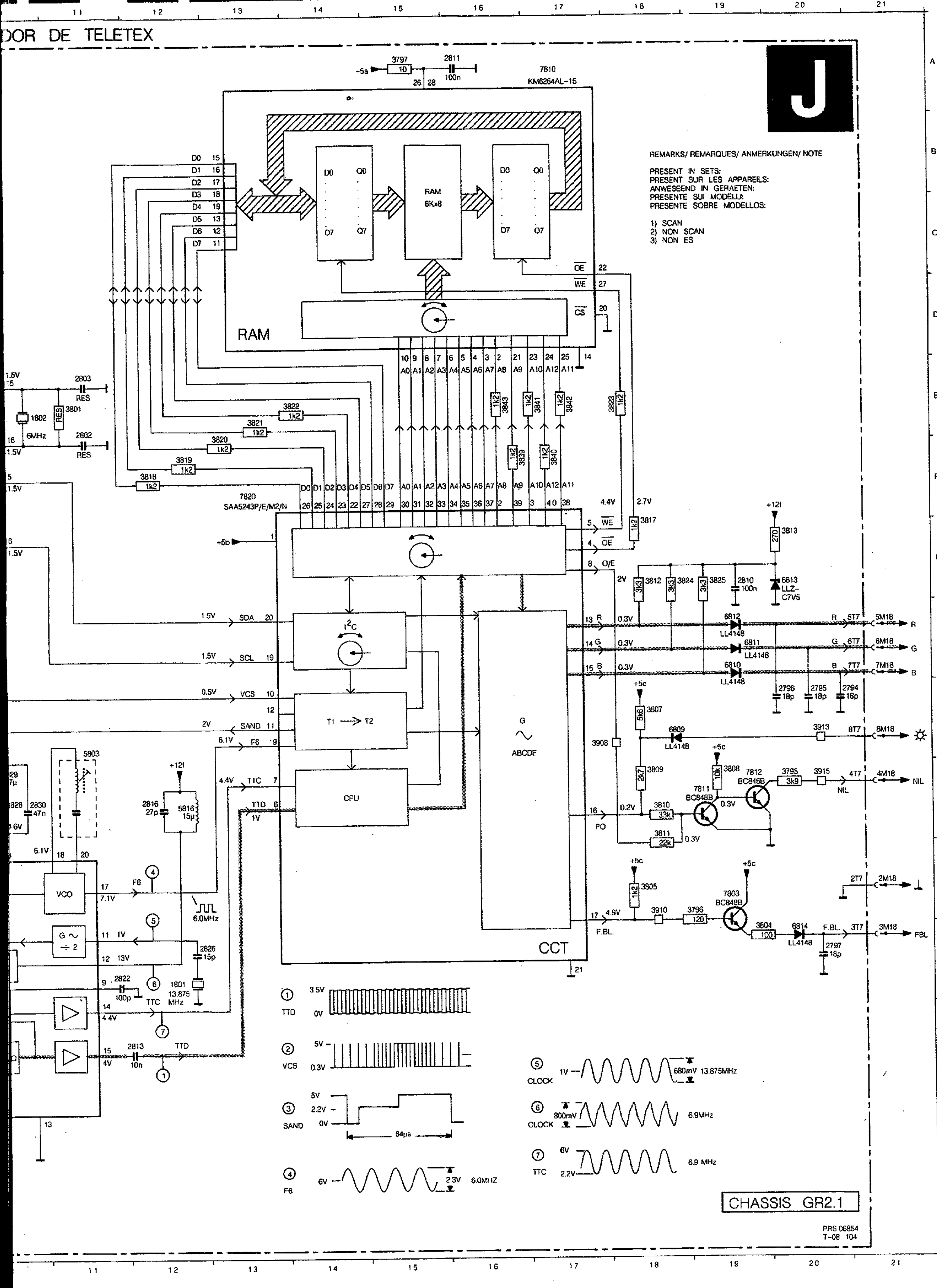
10

DOR DE TELETEX


J
3797 10
2811 100n
+5a
26 28
7810
KM6264AL-15
RAM
RAM 8Kx8
D0 Q0
D7 Q7
D0 15
D1 16
D2 17
D3 18
D4 19
D5 13
D6 12
D7 11
OE 22
WE 27
CS 20
14
A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A12 A11
3843 1k2
3841 1k2
3842 1k2
3839 1k2
3840 1k2
3823 1k2
3822 1k2
3821 1k2
3820 1k2
3819 1k2
3818 1k2
2803 RES
2802 RES
3801 RES
1802 6MHz
7820
SAA5243P/E/M2/N
+5b
4.4V 2.7V
3817 1k2
WE OE O/E
+12f
3813 270
3812 3k3
3824 3k3
3825 3k3
2810 100n
6813 LLZ-C7V5
2V
1.5V SDA 20
1.5V SCL 19
0.5V VCS 10
12
2V SAND 11
6.1V F6 9
4.4V TTC 7
TTD 6 1V
I²C
T1 → T2
CPU
G ABCDE
CCT
13 R 0.3V
14 G 0.3V
15 B 0.3V
6812 LL4148
6811 LL4148
6810 LL4148
R 5T7 5M18 R
G 6T7 6M18 G
B 7T7 7M18 B
2796 18p
2795 18p
2794 18p
+5c
3807 5k6
6809 LL4148
3913 8T7 8M18
3908
3809 2k7
3808 10k
7811 BC848B
7812 BC848B
3795 3k9
3915 4T7 4M18 NIL
3810 33k
3811 22k
0.2V 0.3V 0.3V
16 PO
3805 1k2
7803 BC848B
2T7 2M18
17 4.9V F.BL.
3910
3796 120
3804 100
6814 LL4148
F.BL. 3T7 3M18 FBL
2797 18p
21
5803
2816 27p
5816 15µ
2828 2830 47n
6.1V 18 20
VCO
17 7.1V F6
6.0MHz
G ÷ 2
11 1V
12 13V
2826 15p
9 2822 100p
TTC
1801 13.875 MHz
14 4.4V
15 4V
2813 10n
TTD
13
① TTD 3.5V 0V
② VCS 5V 0.3V
③ SAND 5V 2.2V 0V 64µs
④ F6 6V 2.3V 6.0MHZ
⑤ CLOCK 1V 680mV 13.875MHz
⑥ CLOCK 800mV 6.9MHz
⑦ TTC 6V 2.2V 6.9 MHz
11 12 13 14 15 16 17 18 19 20 21
A B C D E F G H I J K L M N O

REMARKS/ REMARQUES/ ANMERKUNGEN/ NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERAETEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) SCAN
2) NON SCAN
3) NON ES

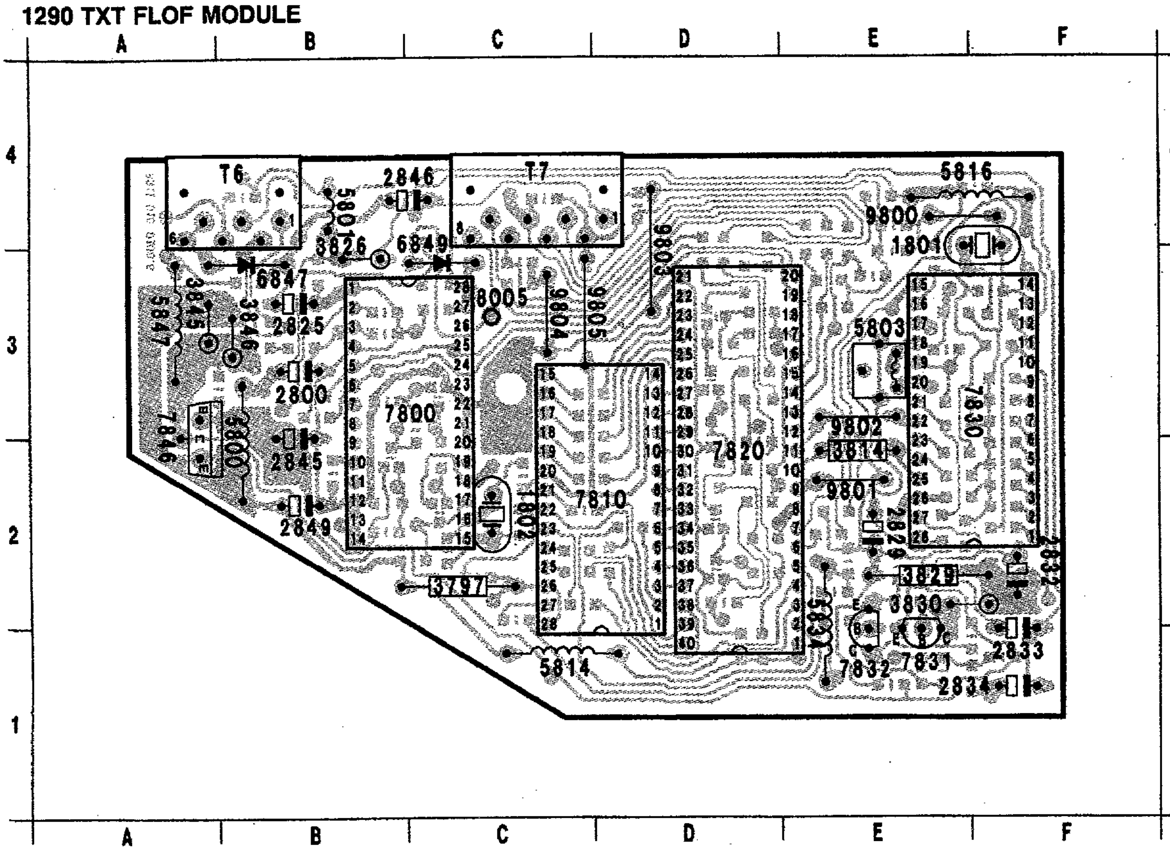
CHASSIS GR2.1

PRS 06854
T-08 104

1801	L1
1802	E1
2792	E3
2793	D4
2794	I 2
2795	I 2
2796	I 2
2797	L2
2798	M2
2799	M4
2800	F5
2801	A8
2802	E1
2803	E1
2804	C6
2805	B6
2810	G1
2811	A1
2812	G5
2813	M1
2814	J5
2815	J7
2816	J1
2817	N7
2818	N7
2819	N7
2820	N8
2821	N8
2822	L1
2823	J8
2824	K5
2825	D4
2826	L1
2827	J9
2828	J9
2829	J1
2830	J1
2832	M5
2833	O3
2834	M2
2836	M3
2845	G4
2846	G3
2849	G5
3795	J2
3796	K1
3797	A1
3798	G5
3800	F6
3801	E1
3802	C6
3803	B6
3804	L1
3805	K1
3807	I 1
3808	J1
3809	J1
3810	J1
3811	J1
3812	G1
3813	G2
3814	J6
3815	L5
3816	J8
3817	G1
3818	F1
3819	F1
3820	E1
3821	E1
3822	E1
3823	E1
3824	G1
3825	G1
3826	D5
3827	J9
3828	J1
3829	M4
3830	M4
3831	M4
3832	M3
3833	L3
3834	N4
3835	N3
3836	L3
3837	M2
3838	M3
3839	F1
3840	F1
3841	E1
3842	E1
3843	E1
3845	E4
3846	F4
3847	G4
3848	H4
3849	H5
3900	D3
3901	F3
3904	C3
3906	F5
3908	I 1
3910	K1
3913	I 2
3914	G6
3915	J2
3917	D5
3918	E5
3919	D4
3920	N6
3921	I 6
3922	E7
5800	E5
5801	D3
5803	I 1
5814	F5
5816	J1
5834	N3
5847	F4
6809	I 1
6810	H1
6811	H1
6812	H1
6813	G2
6814	L2
6820	A8
6847	F3
6848	H5
7800	B9
7801	F7
7802	G6
7803	K1
7810	A1
7811	J1
7812	J1
7820	F1
7830	K5
7831	L4
7832	L3
7846	F4
7849	G5

1801	L12
1802	E10
2792	E3
2793	D4
2794	I 20
2795	I 20
2796	I 20
2797	L20
2798	M2
2799	M4
2800	F5
2801	A8
2802	E11
2803	E11
2804	C6
2805	B6
2810	G19
2811	A16
2812	G5
2813	M12
2814	J5
2815	J7
2816	J12
2817	N7
2818	N7
2819	N7
2820	N8
2821	N8
2822	L11
2823	J8
2824	K5
2825	D4
2826	L12
2827	J9
2828	J9
2829	J10
2830	J10
2832	M5
2833	O3
2834	M2
2836	M3
2845	G4
2846	G3
2849	G5
3795	J20
3796	K19
3797	A15
3798	G5
3800	F6
3801	E11
3802	C6
3803	B6
3804	L19
3805	K18
3807	I 18
3808	J19
3809	J18
3810	J18
3811	J18
3812	G18
3813	G20
3814	J6
3815	L5
3816	J8
3817	G18
3818	F12
3819	F12
3820	E13
3821	E13
3822	E14
3823	E18
3824	G18
3825	G19
3826	D5
3827	J9
3828	J10
3829	M4
3830	M4
3831	M4
3832	M3
3833	L3
3834	N4
3835	N3
3836	L3
3837	M2
3838	M3
3839	F17
3840	F17
3841	E17
3842	E17
3843	E16
3845	E4
3846	F4
3847	G4
3848	H4
3849	H5
3900	D3
3901	F3
3904	C3
3906	F5
3908	I 17
3910	K18
3913	I 20
3914	G6
3915	J20
3917	D5
3918	E5
3919	O4
3920	N6
3921	I 6
3922	E7
5800	E5
5801	O3
5803	I 11
5814	F5
5816	J12
5834	N3
5847	F4
6809	I 18
6810	H19
6811	H19
6812	H19
6813	G20
6814	L20
6820	A8
6847	F3
6848	H5
7800	B9
7801	F7
7802	G6
7803	K19
7810	A17
7811	J19
7812	J19
7820	F13
7830	K5
7831	L4
7832	L3
7846	F4
7849	G5

1290 TXT FLOF MODULE



A
B
C
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E
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2
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T6
T7
2846
5801
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3846
5847
2825
2800
2845
2849
7846
3800
7800
8005
9804
9805
9803
1802
7810
3797
5814
7820
5816
9800
1801
5803
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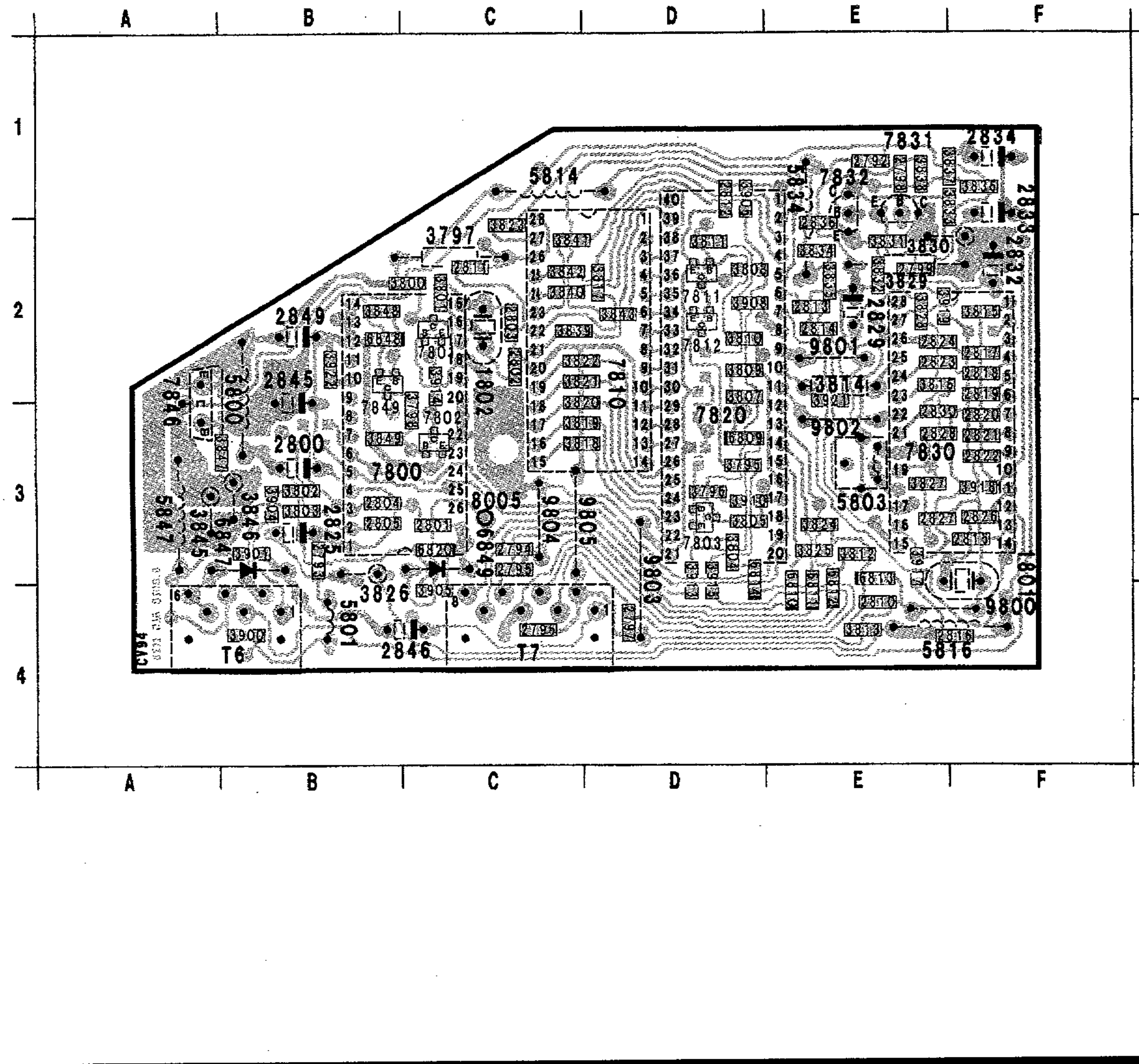
2833
2834



A
B
C
D
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F
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7831
2834
5814
5834
7832
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2832
3797
3830
3829
2849
2845
7846
3800
2800
7800
1802
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7811
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9801
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9802
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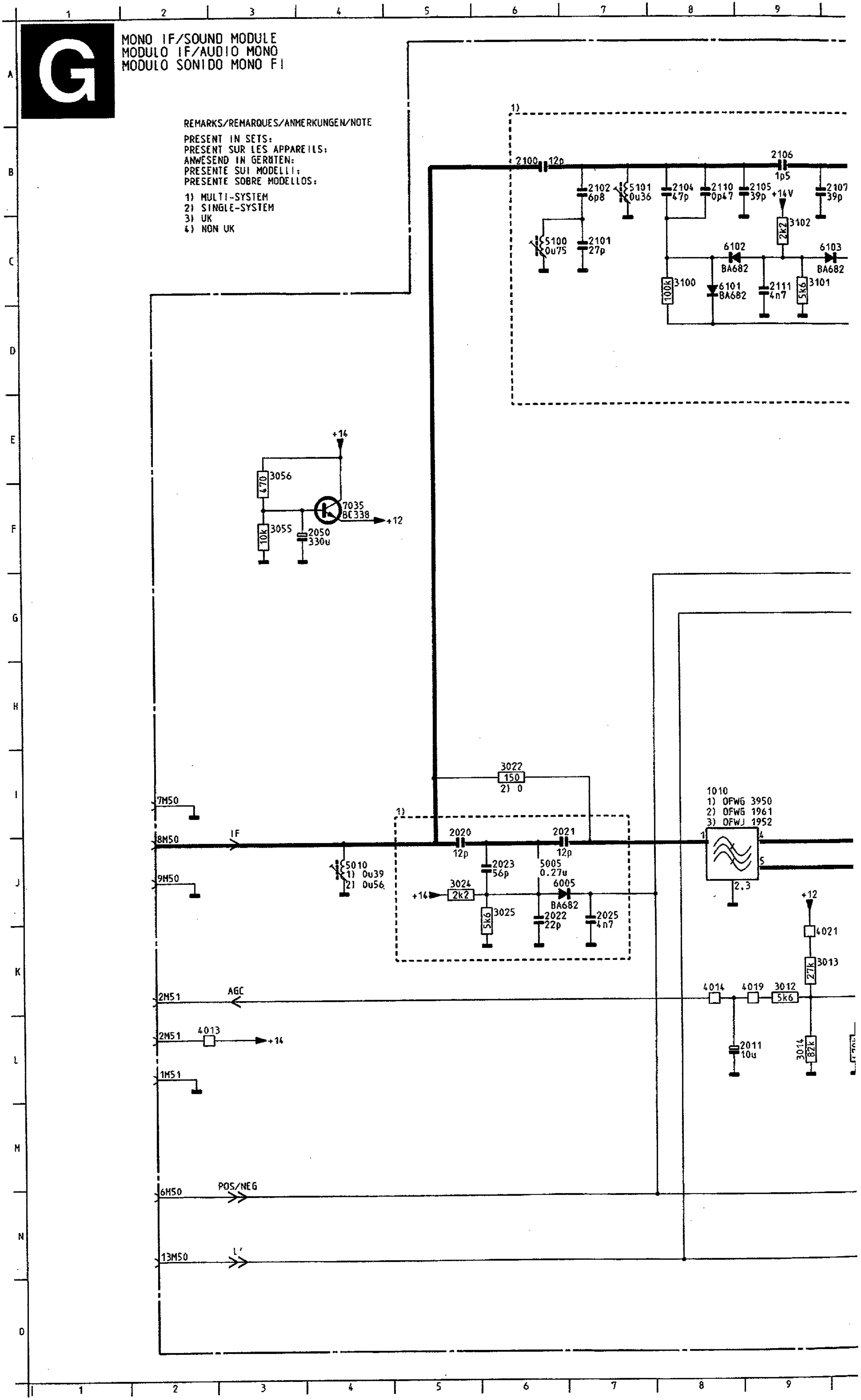
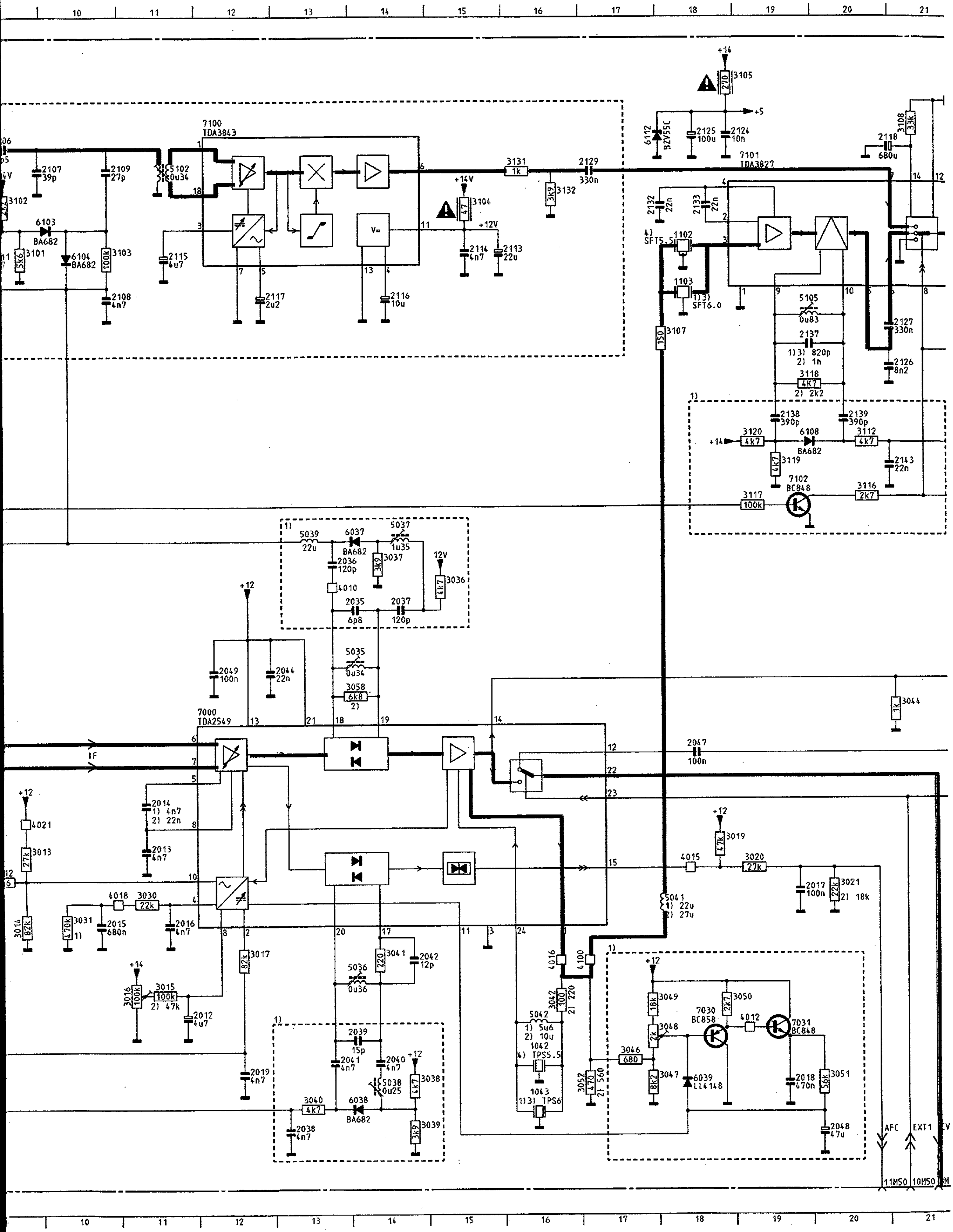
5803
8005
9804
9805
9803
2825
3846
3847
3845
5847
6849
3826
5801
2846
T6
T7
5816
1801
9800

T6	A 4
T7	C 4
1801	F 3
1802	C 2
2792	E 1
2793	B 3
2794	C 3
2795	C 3
2796	C 4
2797	D 4
2798	E 1
2799	E 2
2800	B 3
2801	C 3
2802	C 2
2803	C 2
2804	B 3
2805	B 3
2810	E 4
2811	C 2
2812	D 1
2813	E 2
2814	E 2
2815	F 3
2816	F 4
2817	F 2
2818	F 2
2819	F 2
2820	F 3
2821	F 3
2822	F 3
2823	E 2
2824	E 2
2825	B 3
2826	F 3
2827	E 3
2828	E 3
2829	E 2
2830	E 3
2832	F 2
2833	F 1
2834	F 1
2836	E 2
2845	B 2
2846	C 4
2849	B 2
3795	D 3
3796	D 3
3797	C 2
3798	C 3
3800	C 2
3801	C 2
3802	B 3
3803	B 3
3804	D 3
3805	D 3
3807	D 2
3808	D 2
3809	D 2
3810	D 2
3811	D 2
3812	E 3
3813	E 4
3814	E 2
3815	F 2
3816	E 2
3817	D 2
3818	C 3
3819	C 3
3820	C 3
3821	C 2
3822	C 2
3823	C 2
3824	E 3
3825	E 3
3826	B 4
3827	E 3
3828	E 2
3829	E 2
3830	E 2
3831	E 2
3832	E 2
3833	E 1
3834	E 2
3835	E 2
3836	F 1
3837	E 1
3838	E 1
3839	C 2
3840	C 2
3841	C 2
3842	C 2
3843	D 2
3845	A 3
3846	B 3
3847	A 3
3848	B 2
3849	B 3
3900	B 4
3901	B 3
3904	B 3
3905	C 4
3906	D 1
3908	D 2
3910	D 3
3913	D 3
3914	C 2
3915	D 3
3917	E 3
3918	F 3
3919	E 2
3921	E 2
3922	B 2
5800	B 2
5801	B 4
5803	E 3
5814	C 1
5816	E 4
5834	E 1
5847	A 3
6809	D 3
6810	E 4
6811	E 4
6812	E 4
6813	E 3
6814	D 3
6820	C 3
6847	B 3
6848	B 2
6849	C 3
7800	B 3
7801	C 2
7802	C 3
7803	D 3
7810	D 2
7811	D 2
7812	D 2
7820	D 3
7830	E 3
7831	E 1
7832	E 1
7846	A 2
7849	B 3
8005	C 3
9800	F 4
9801	E 2
9802	E 3
9803	D 3
9804	C 3
9805	D 3

Mono IF/sound


G
MONO IF/SOUND MODULE
MODULO IF/AUDIO MONO
MODULO SONIDO MONO FI
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) MULTI-SYSTEM
2) SINGLE-SYSTEM
3) UK
4) NON UK
2100 12p
2102 6p8
5101 0u36
2104 47p
2110 0p47
2105 39p
2106 1p5
+14V
2107 39p
5100 0u75
2101 27p
3102 2k2
6102 BA682
6103 BA682
3100 100k
6101 BA682
2111 4n7
3101 5k6
+14
3056 470
7035 BC338
+12
3055 10k
2050 330u
3022 150 2) 0
7M50
8M50
IF
9M50
5010 1) 0u39 2) 0u56
2020 12p
2023 56p
2021 12p
5005 0.27u
3024 2k2
+14
6005 BA682
3025 5k6
2022 22p
2025 4n7
1010
1) OFWG 3950
2) OFWG 1961
3) OFWJ 1952
2,3
+12
4021
3013 27k
2M51
AGC
4014
4019
3012 5k6
2011 10u
3014 82k
2M51
4013
+14
1M51
6M50
POS/NEG
13M50
L'
A B C D E F G H I J K L M N O
1 2 3 4 5 6 7 8 9

und module / Mono ZF/Tonmodul / Module FI/son mono


10
11
12
13
14
15
16
17
18
19
20
21
+14
3105
270
+5
6112
BZV55C
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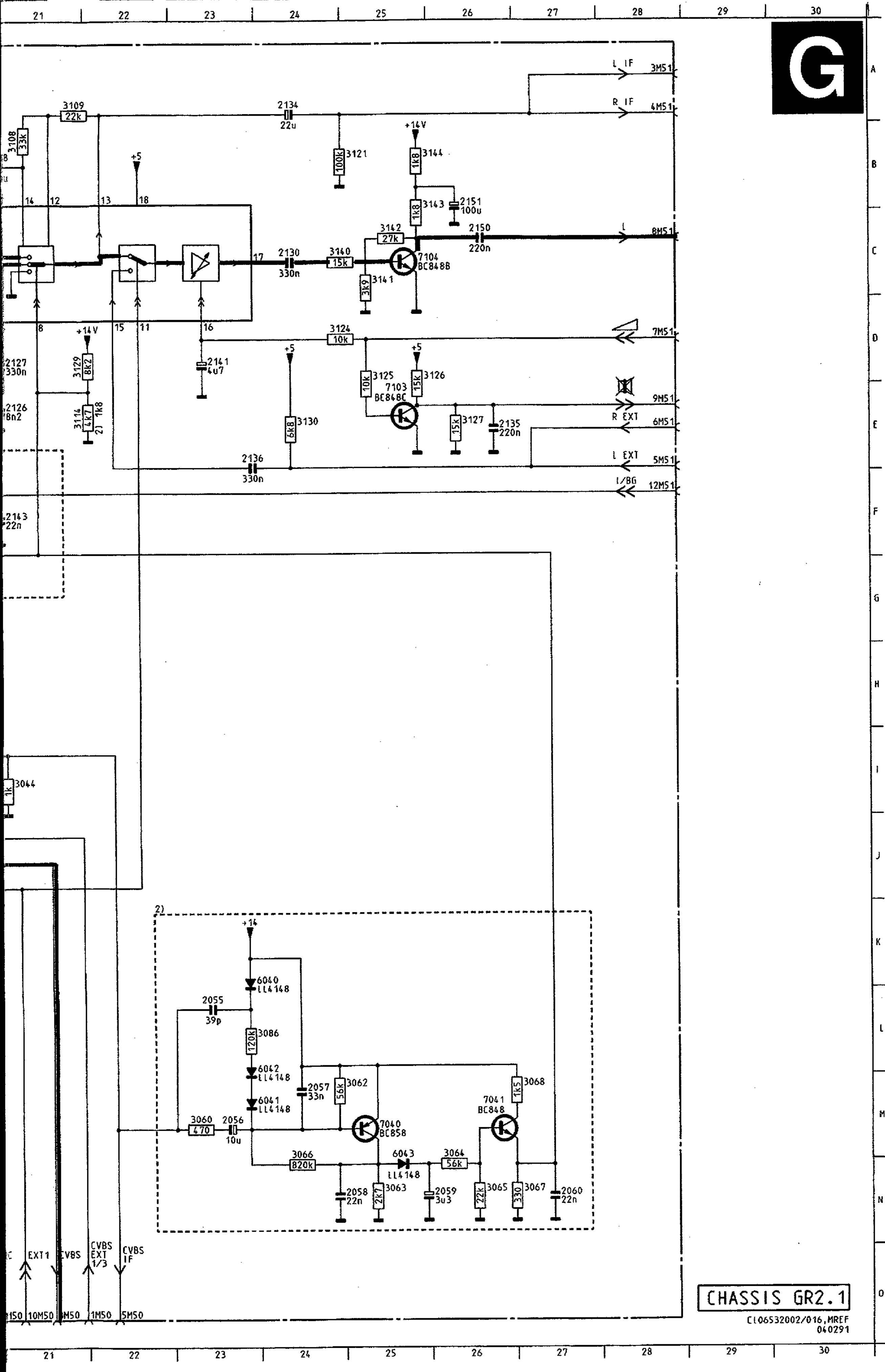
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CHASSIS GR2.1

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3104	C15
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3144	B26
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4012	M19
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4018	L11
4019	K 9
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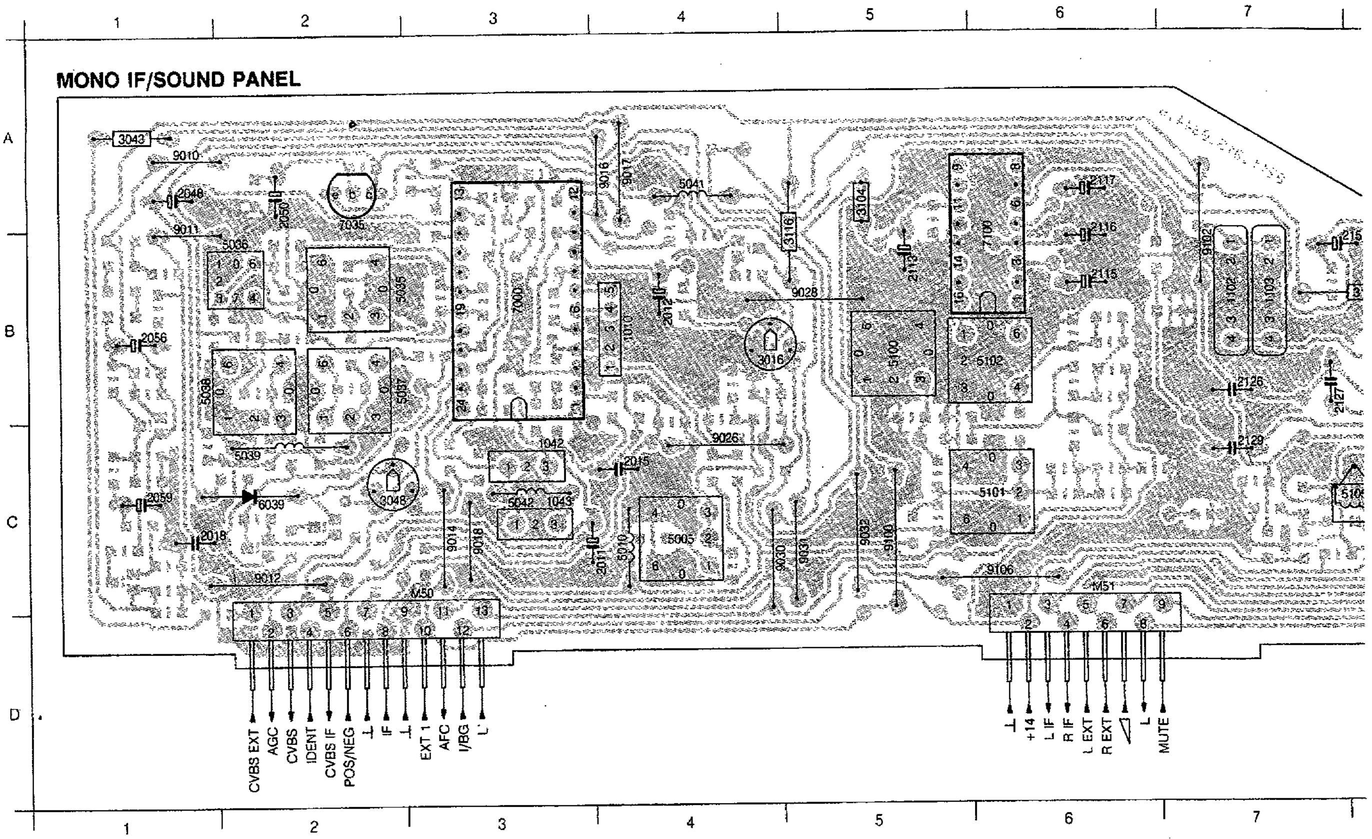
Mono IF/sound module / Mono ZF/Tonmodul /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M51
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AGC
CVBS
IDENT
CVBS IF
POS/NEG
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R IF
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R EXT
L
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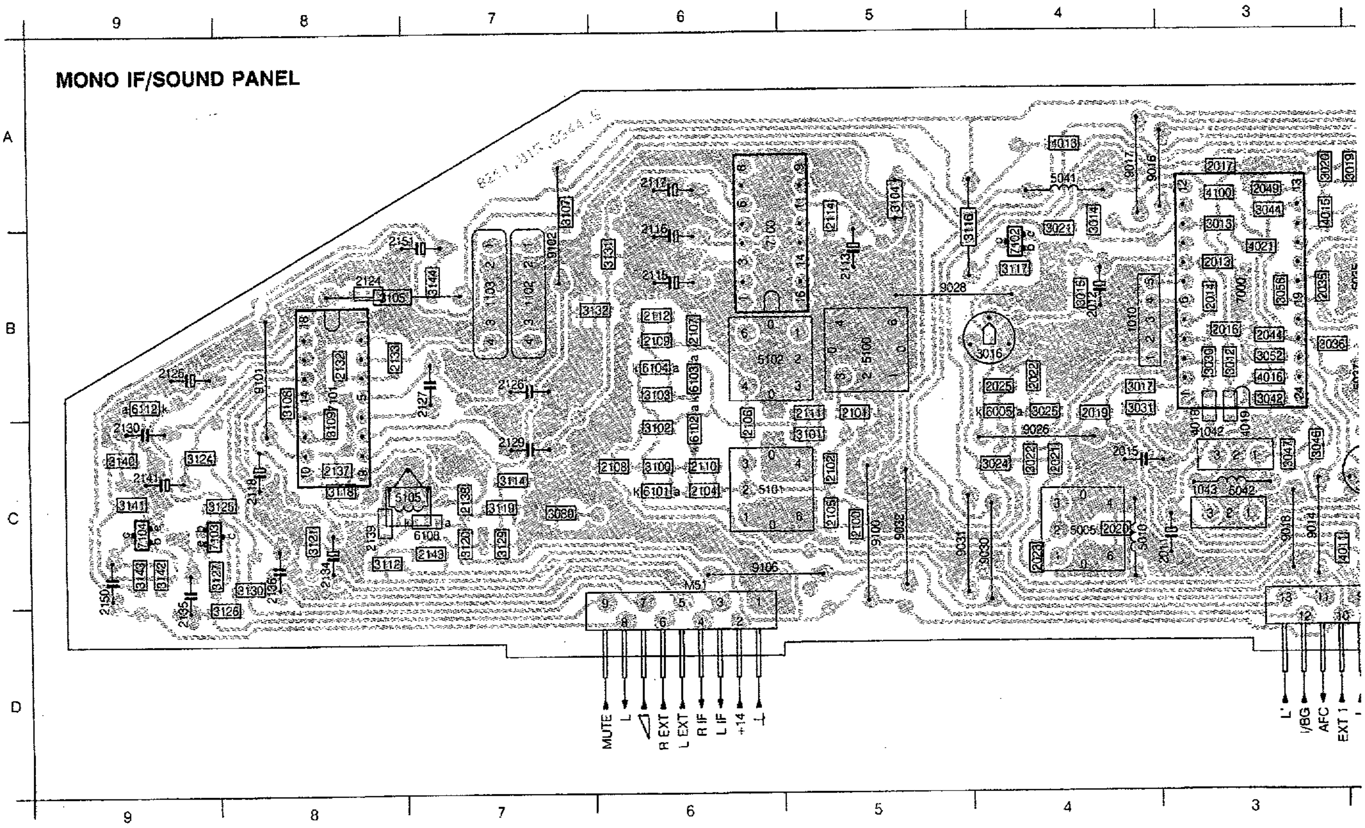
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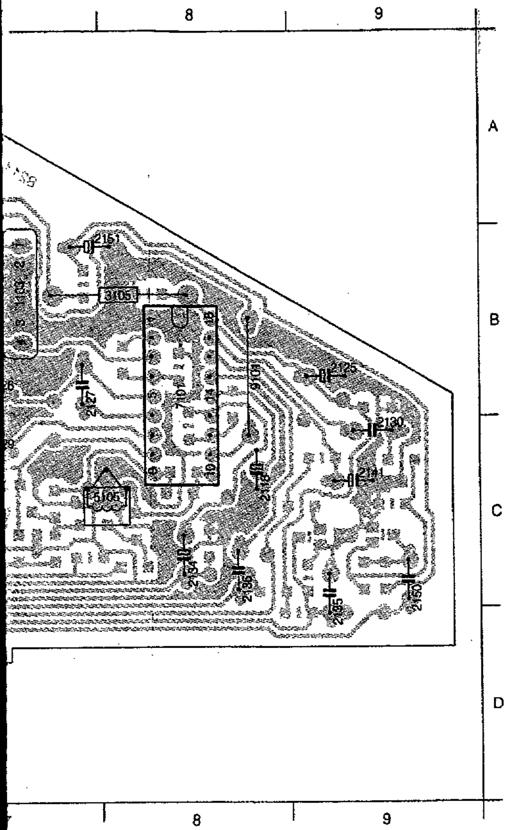
L EXT
R IF
L IF
+14
⊥
L'
I/BG
AFC
EXT 1

Module FI/son mono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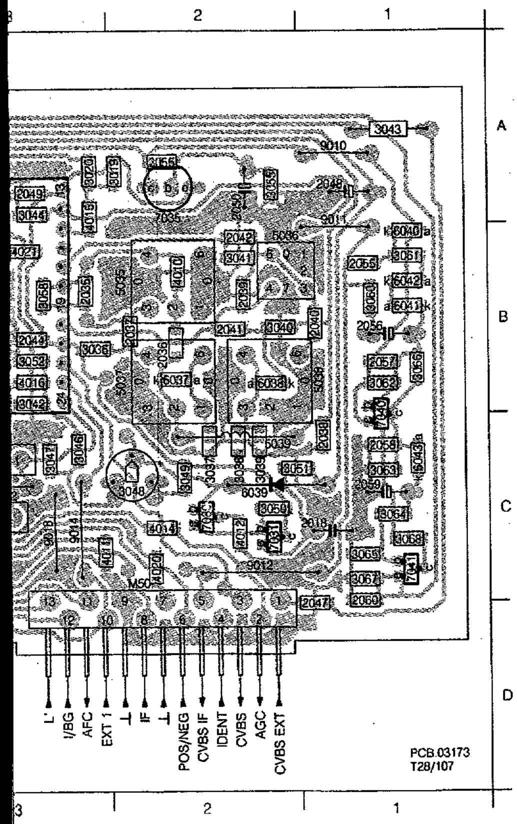
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4010
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4012
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9012
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M50
L'
I/BG
AFC
EXT 1
IF
POS/NEG
CVBS IF
IDENT
CVBS
AGC
CVBS EXT
PCB 03173
T28/107

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M51	C6
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1043	C3
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1103	B7
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2013	B3
2014	B3
2015	C4
2016	B3
2017	A3
2018	C1
2019	C4
2020	C4
2021	C4
2022	B4
2023	C4
2025	B4
2035	B3
2036	B2
2037	B2
2038	C1
2039	B2
2040	B2
2041	B2
2042	B2
2044	B3
2047	D1
2048	A1
2049	A3
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2055	B1
2056	B1
2057	B1
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2060	D1
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2105	C5
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2113	B5
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3014	B4
3015	B4
3016	B4
3017	B4
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3103	B6
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3107	B7
3108	C8
3109	C8
3112	C8
3114	C7
3116	B5
3117	B4
3118	C8
3119	C7
3120	C7
3121	C8
3124	C9
3125	C8
3126	D8
3127	C9
3129	C7
3130	C8
3131	B7
3132	B6
3140	C9
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4012	C2
4013	A4
4014	C2
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4018	C3
4019	C3
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4021	B3
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6104	B6
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7041	C1
7100	B6
7101	B8
7102	B4
7103	C9
7104	C9
9010	A1
9011	B1
9012	C2
9014	C3
9016	A4
9017	A4
9018	C3
9026	C4
9028	B5
9030	C5
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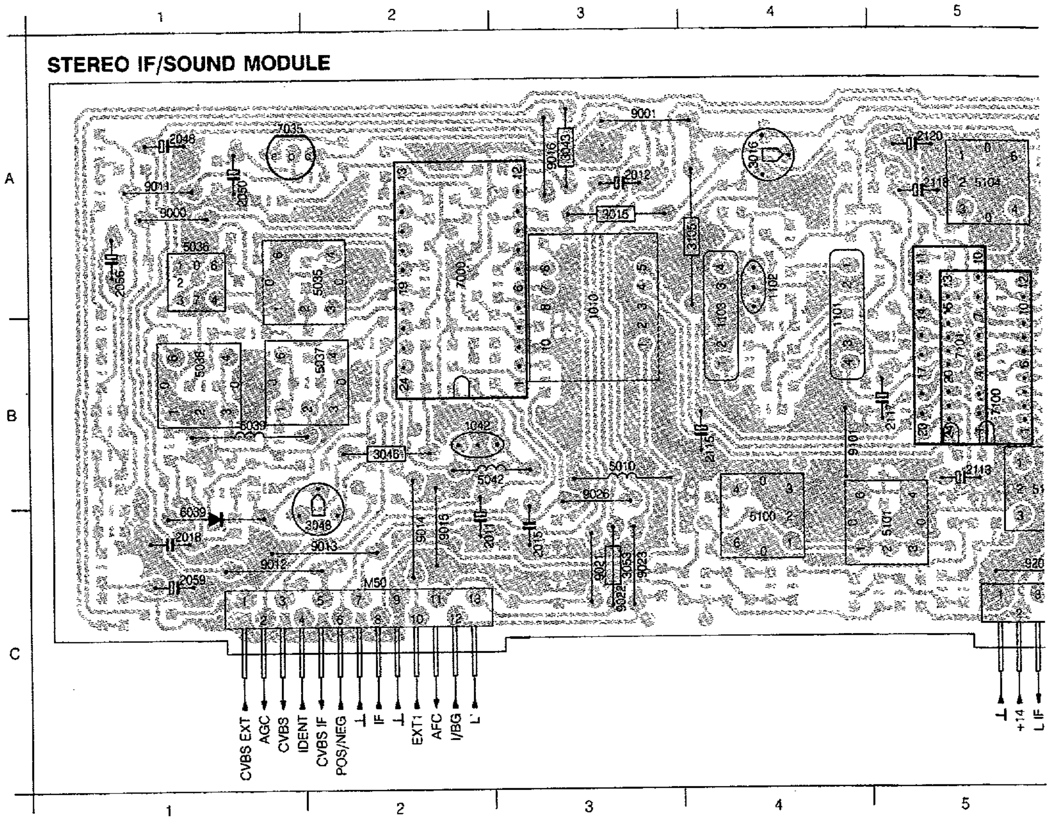
Stereo IF/sound module / Stereo ZF/Tonmodul /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B
C
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POS/NEG
⊥
IF
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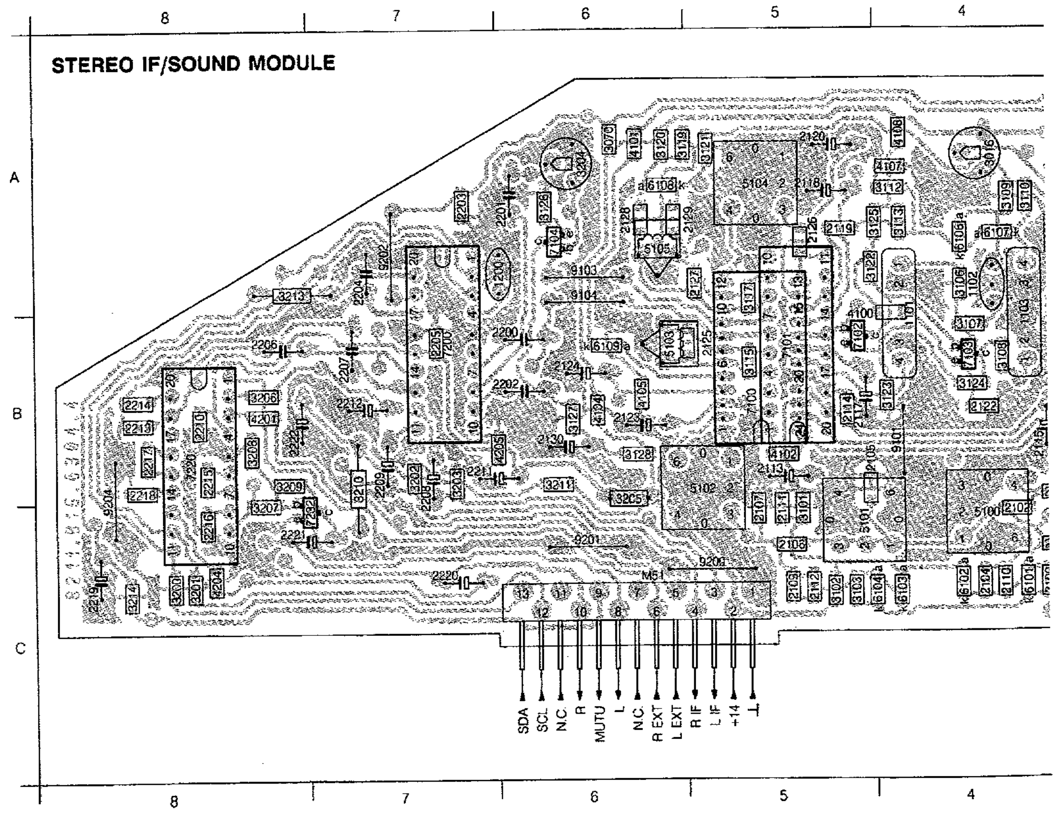
L IF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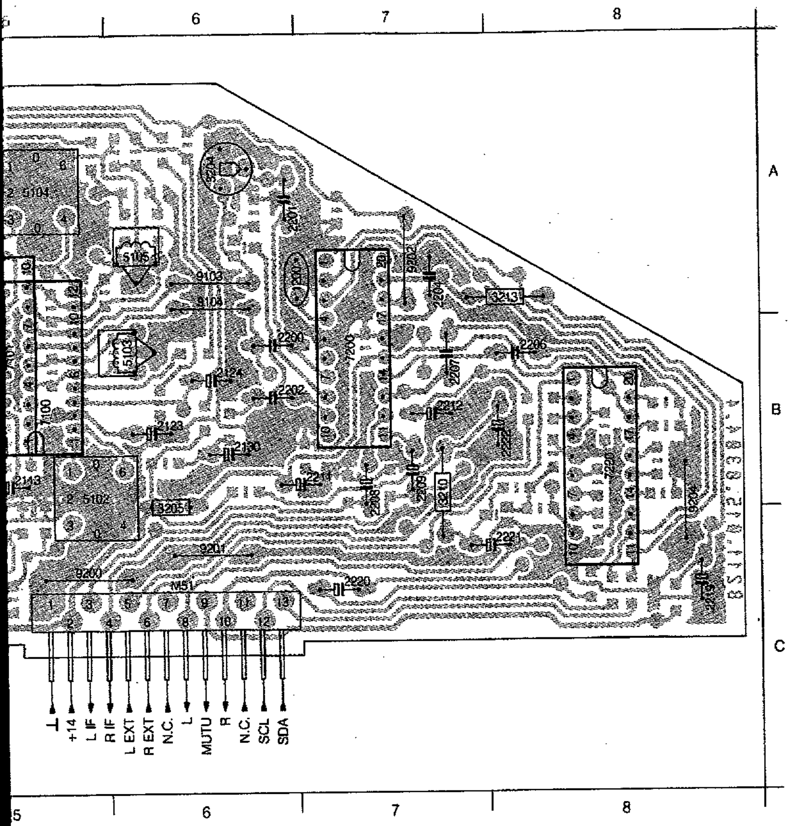
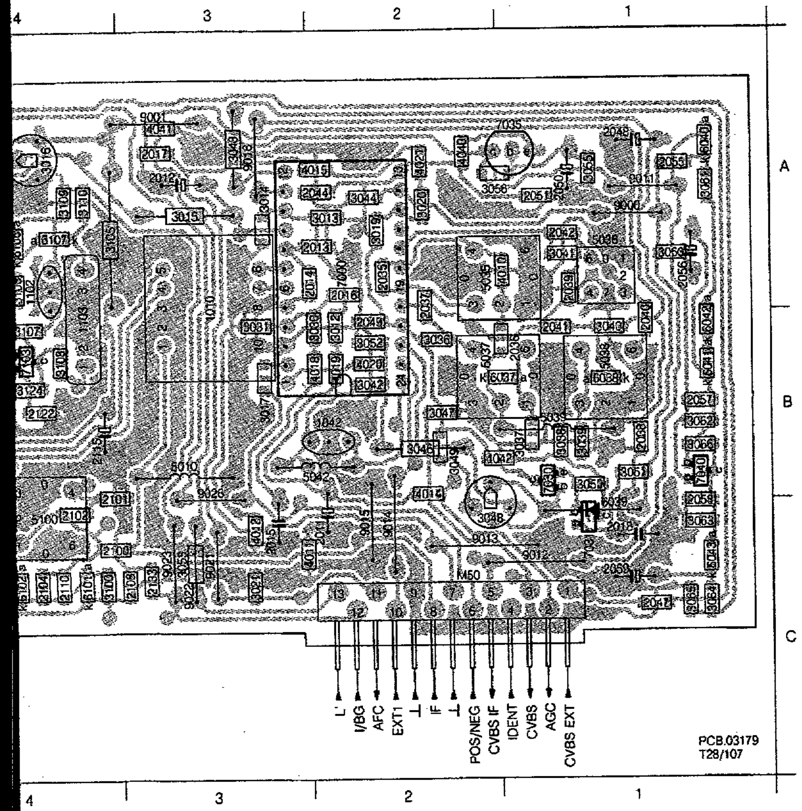
Module FI/son stéréo





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2012	A3	3108	B4
2013	A2	3109	A4
2014	A3	3110	A4
2015	C3	3112	A4
2016	A2	3113	A4
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2039	A1	3123	B4
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2100	C3	3209	B8
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2207	B7	5102	B5
2208	C7	5103	B6
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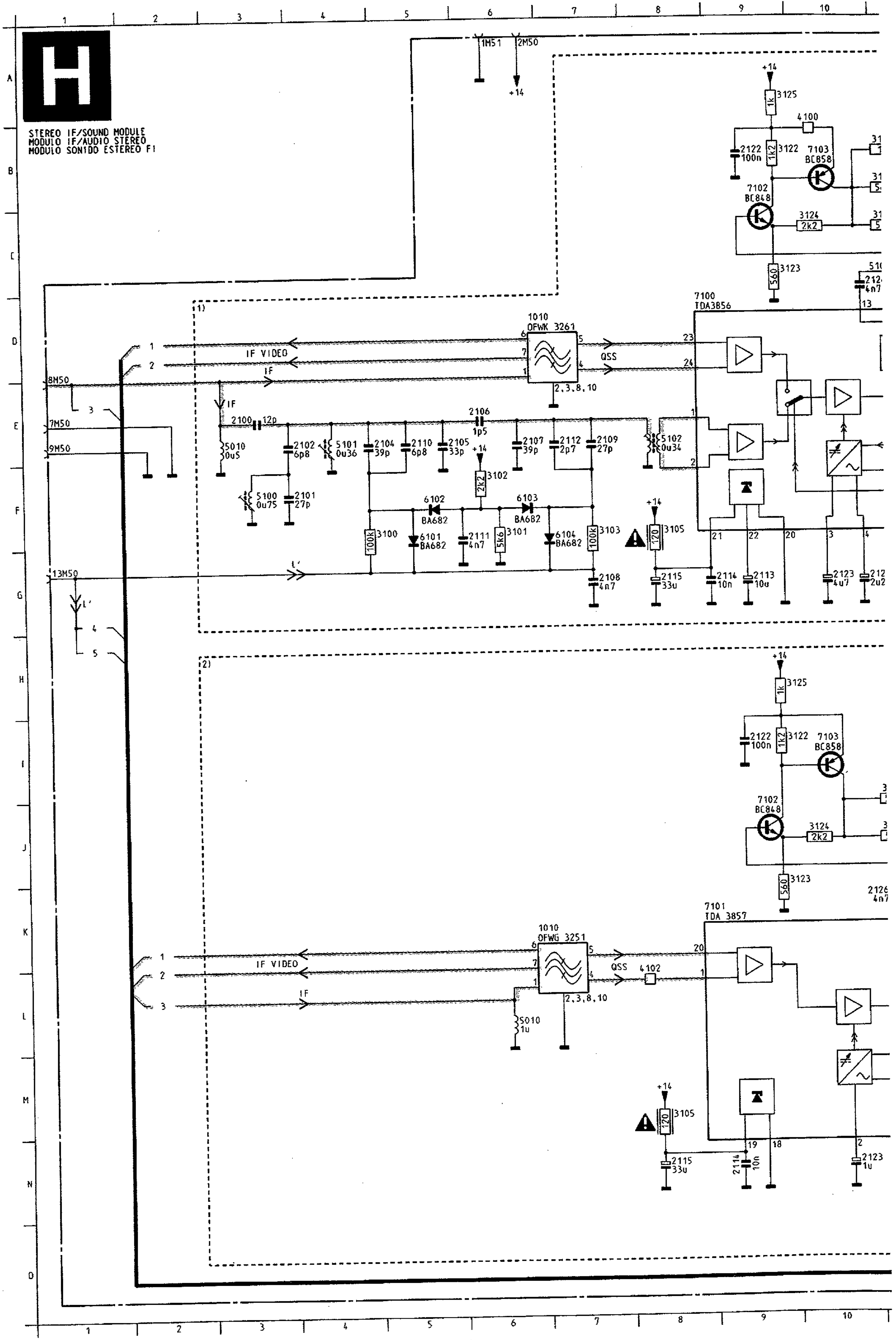
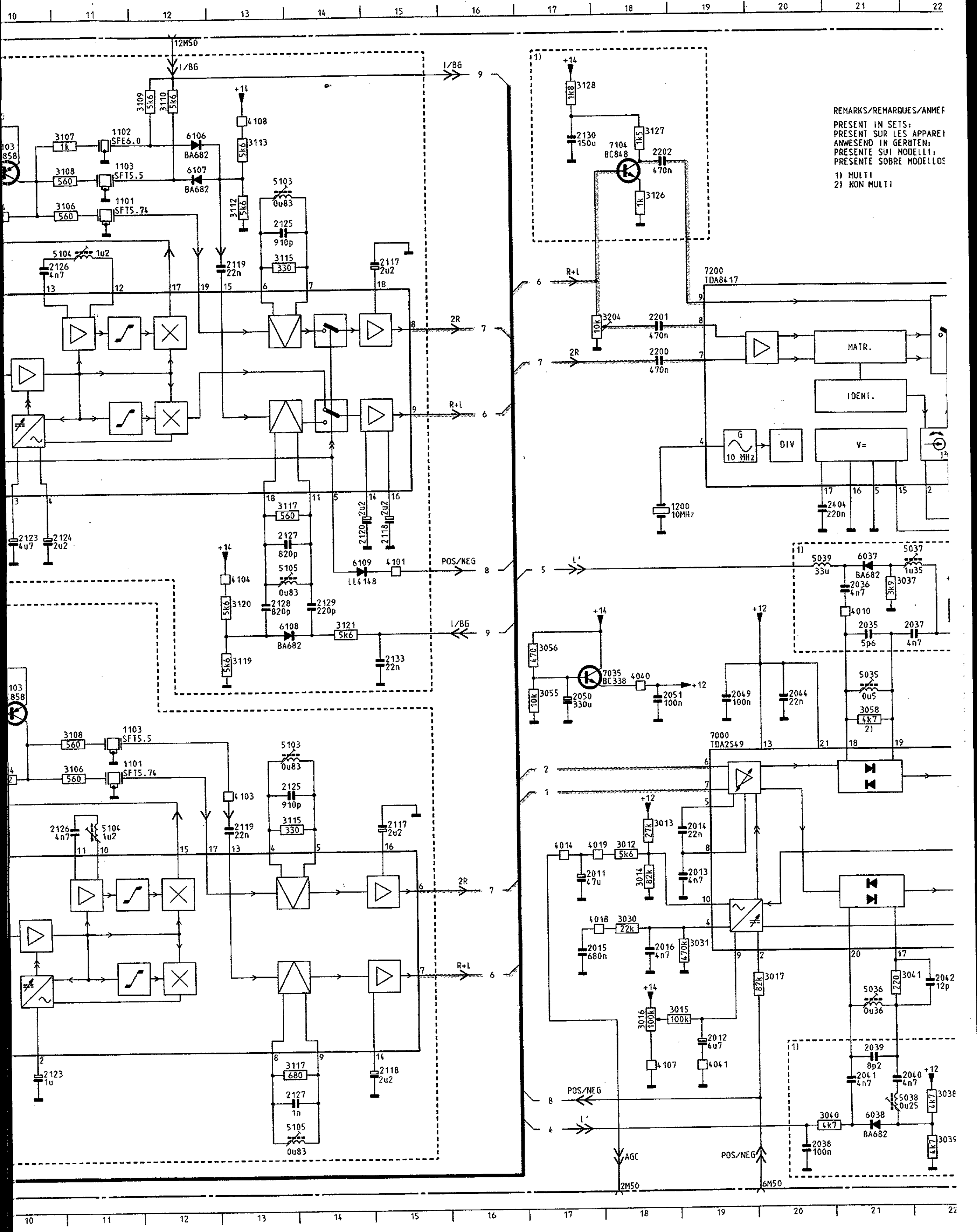
2210	B8	5105	A6
2211	B7	6037	B1
2212	B7	6038	B1
2213	B8	6039	C1
2214	B8	6040	A1
2215	B8	6041	B1
2216	C8	6042	B1
2217	B8	6043	C1
2218	B8	6101	C4
2219	C8	6102	C4
2220	C7	6103	C4
2221	C8	6104	C5
2222	B8	6106	A4
3012	B2	6107	A4
3013	A2	6108	A6
3014	A3	6109	B6
3015	A3	7000	A2
3016	A4	7030	B1
3017	B3	7031	C1
3019	A2	7035	A1
3020	A2	7040	B1
3021	C3	7100	B5
3030	B3	7101	B5
3031	B3	7102	B5
3036	B2	7103	B4
3037	B1	7104	A6
3038	B1	7200	B7
3039	B1	7220	B8
3040	B1	7232	C8
3041	A1	9000	A1
3042	B2	9001	A3
3043	A3	9011	A1
3044	A2	9012	C1
3046	B2	9013	C2
3047	B2	9014	C2
3048	C2	9015	C2
3049	B2	9016	A3
3050	B1	9021	C3
3051	B1	9022	C3
3052	B2	9023	C3
3053	C3	9026	B3
3055	A1	9101	B4
3056	A1	9103	A6
3060	A1	9104	A6
3061	A1	9200	C5
3062	B1	9201	C6
3063	C1	9202	A7
3064	C1	9204	C8
3065	C1		

Stereo IF/sound module / Stereo ZF/Tonmodul /

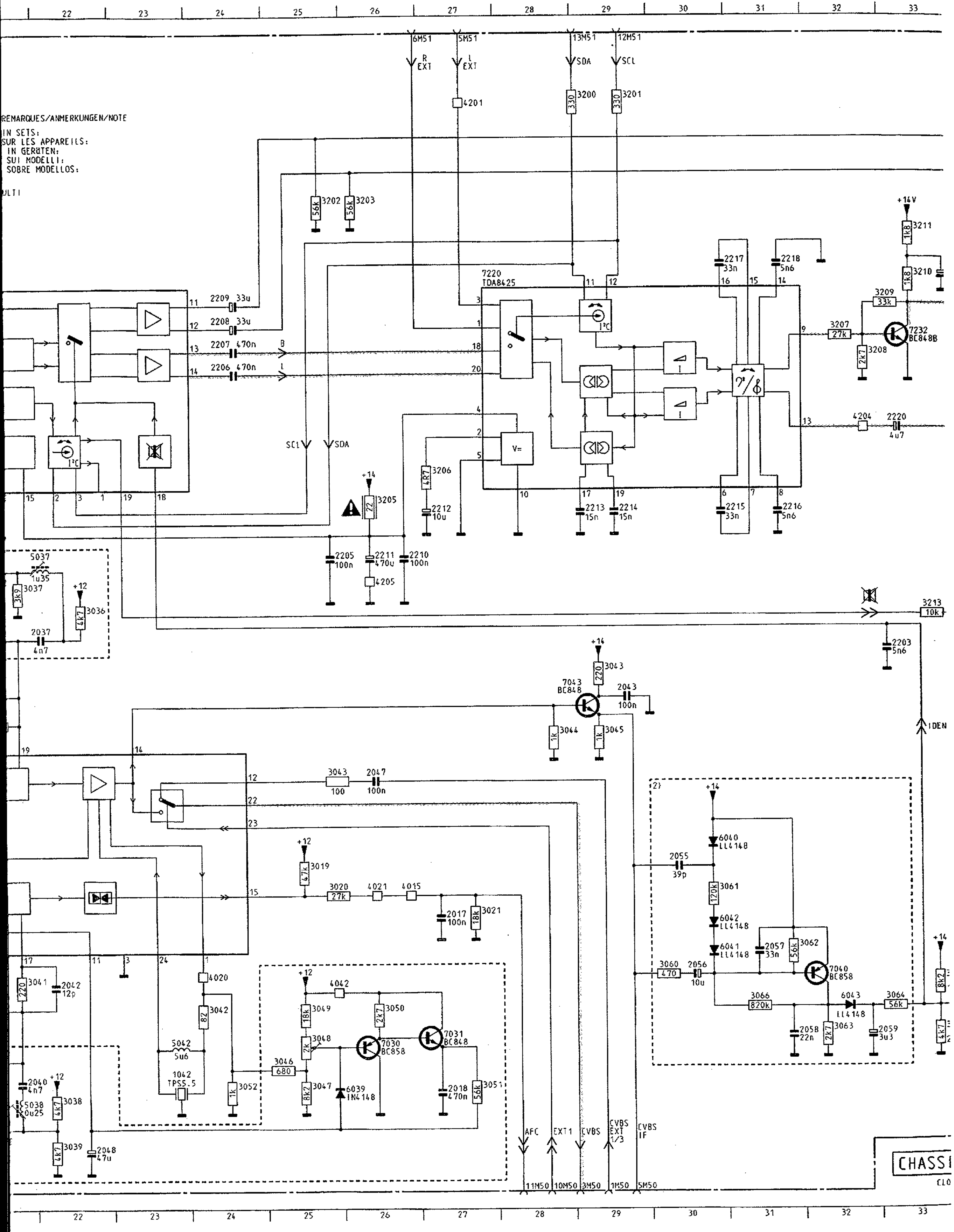

H
STEREO IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI
1M51
2M50
+14
8M50
7M50
9M50
13M50
1)
2)
IF VIDEO
IF
QSS
1010
OFWK 3261
OFWG 3251
2,3,8,10
2100 12p
5010 0u5
5010 1u
2102 6p8
5101 0u36
5100 0u75
2101 27p
2104 39p
2110 6p8
2105 33p
2106 1p5
2107 39p
2112 2p7
2109 27p
5102 0u34
3102 2k2
6102 BA682
6103 BA682
6101 BA682
6104 BA682
2111 4n7
3101 5k6
3100 100k
3103 100k
2108 4n7
3105 120
2115 33u
2114 10n
2113 10u
2123 4u7
2123 1u
3125 1k
4100
4102
2122 100n
3122 1k2
7103 BC858
7102 BC848
3124 2k2
3123 560
7100 TDA3856
7101 TDA 3857
2126 4n7
1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L M N O

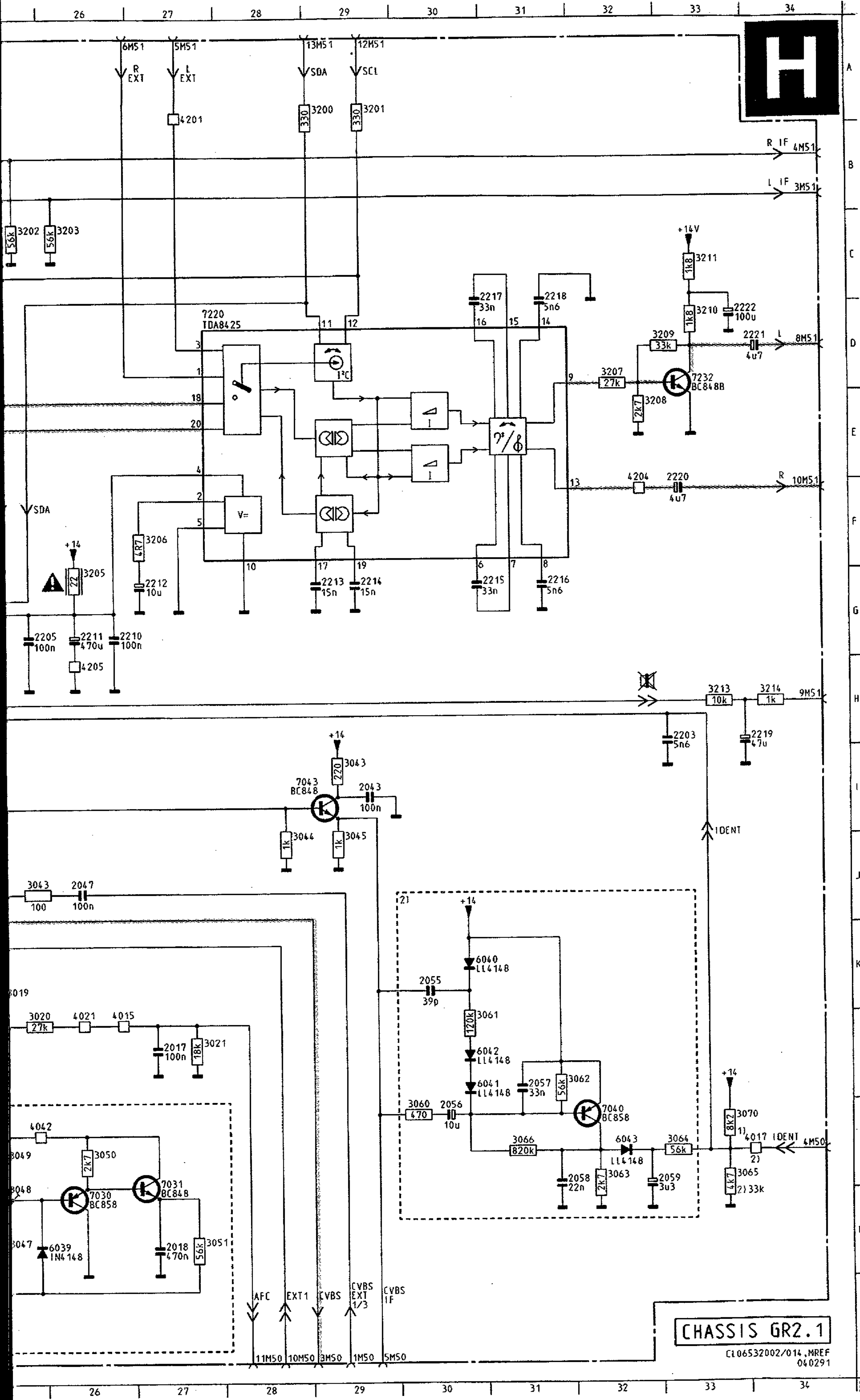
Module FI/son stéréo


10
11
12
13
14
15
16
17
18
19
20
21
22
12M50
I/BG
3109 5k6
3110 5k6
3107 1k
1102 SFE6.0
6106 BA682
3108 560
1103 SFT5.5
6107 BA682
3106 560
1101 SFT5.74
4108
3113 5k6
3112 5k6
5103 0u83
2125 910p
3115 330
5104 1u2
2126 4n7
2119 22n
2117 2u2
2R
R+L
3117 560
2127 820p
5105 0u83
2128 820p
2129 220p
2120 2u2
2118 2u2
2123 4u7
2124 2u2
4104
3120 5k6
6108 BA682
3121 5k6
3119 5k6
2133 22n
6109 LL4148
4101
POS/NEG
+14
3128 1k8
2130 150u
3127 1k5
7104 BC848
2202 470n
3126 1k
3204 10k
2201 470n
2200 470n
7200 TDA8417
MATR.
IDENT.
G
10 MHz
DIV
V=
1200 10MHz
2404 220n
5039 33u
6037 BA682
5037 1u35
2036 4n7
3037 3k9
4010
2035 5p6
2037 4n7
5035 0u5
3058 4k7
3056 470
3055 10k
7035 BC338
4040
2050 330u
2051 100n
+12
2049 100n
2044 22n
7000 TDA2549
3013 27k
2014 22n
4014
4019
3012 5k6
2011 47u
3014 82k
2013 4n7
4018
3030 22k
2015 680n
2016 4n7
3031 470k
3017 82k
3016 100k
3015 100k
2012 4u7
4107
4041
3041 220
2042 12p
5036 0u36
2039 8p2
2041 4n7
2040 4n7
5038 0u25
3038 4k7
3040 4k7
6038 BA682
2038 100n
3039 4k7
L'
AGC
2M50
6M50
4103
2123 1u
3117 680
2127 1n
1)
2)

REMARKS/REMARQUES/ANME
PRESENT IN SETS:
PRESENT SUR LES APPAREI
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS

1) MULTI
2) NON MULTI


REMARQUES/ANMERKUNGEN/NOTE
IN SETS:
SUR LES APPAREILS:
IN GERÄTEN:
SUI MODELLI:
SOBRE MODELLOS:
ULTI
6M51
5M51
13M51
12M51
R EXT
L EXT
SDA
SCL
4201
330 3200
330 3201
56k 3202
56k 3203
7220
TDA8425
2209 33u
2208 33u
2207 470n
2206 470n
R
L
I²C
SCL
SDA
V=
4R7 3206
2212 10u
+14
22 3205
2205 100n
2211 470u
2210 100n
4205
2213 15n
2214 15n
2215 33n
2216 5n6
2217 33n
2218 5n6
+14V
1k8 3211
1k8 3210
3209 33k
3207 27k
2k7 3208
7232 BC848B
4204
2220 4u7
3213 10k
2203 5n6
IDEN
5037 1u35
3k9 3037
+12
4k7 3036
2037 4n7
+14
220 3043
7043 BC848
2043 100n
1k 3044
1k 3045
3043 100
2047 100n
+12
47k 3019
3020 27k
4021
4015
2017 100n
18k 3021
2)
+14
6040 LL4148
2055 39p
120k 3061
6042 LL4148
6041 LL4148
2057 33n
56k 3062
3060 470
2056 10u
7040 BC858
3066 820k
6043 LL4148
3064 56k
2058 22n
2k7 3063
2059 3u3
+14
8k2
4k7
220 3041
2042 12p
4020
82 3042
5042 5u6
1042 TPS5.5
1k 3052
+12
4042
18k 3049
2k7 3050
2k 3048
7030 BC858
7031 BC848
3046 680
8k2 3047
6039 1N4148
2018 470n
56k 3051
2040 4n7
+12
5038 0u25
4k7 3038
4k7 3039
2048 47u
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11M50
10M50
3M50
1M50
5M50
CHASSI
CLO
22
23
24
25
26
27
28
29
30
31
32
33


H
26
27
28
29
30
31
32
33
34
6M51
5M51
13M51
12M51
R EXT
L EXT
SDA
SCL
4201
3200 330
3201 330
R IF 4M51
L IF 3M51
3202 56k
3203 56k
+14V
3211 1k8
3210 1k8
2222 100u
2217 33n
2218 5n6
7220 TDA8425
I²C
3209 33k
2221 4u7
L 8M51
3207 27k
7232 BC848B
3208 2k7
4204
2220 4u7
R 10M51
SDA
V=
+14
3205 22
3206 4R7
2212 10u
2213 15n
2214 15n
2215 33n
2216 5n6
2205 100n
2211 470u
2210 100n
4205
3213 10k
3214 1k
9M51
2203 5n6
2219 47u
+14
3043 220
7043 BC848
2043 100n
3044 1k
3045 1k
IDENT
3043 100
2047 100n
2)
+14
6040 LL4148
2055 39p
3061 120k
6042 LL4148
6041 LL4148
2057 33n
3062 56k
7040 BC858
3060 470
2056 10u
3066 820k
6043 LL4148
3064 56k
2058 22n
3063 2k7
2059 3u3
+14
3070 8k2
1)
4017
IDENT 4M50
2)
3065 4k7
2) 33k
3019
3020 27k
4021
4015
2017 100n
3021 18k
4042
3049
3050 2k7
3048
7030 BC858
7031 BC848
3047
6039 1N4148
2018 470n
3051 56k
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11M50
10M50
3M50
1M50
5M50
CHASSIS GR2.1
CL06532002/014.MREF
040291

1010	D 6	3042	M24	6102	F 5
1010	K 6	3043	I29	6103	F 6
1042	N23	3043	J25	6104	F 7
1101	C11	3044	I28	6106	B12
1101	J11	3045	I29	6107	B12
1102	B11	3046	N25	6108	H14
1103	B11	3047	N25	6109	G14
1103	I11	3048	M25	7000	J19
1200	G19	3049	M25	7030	N26
2011	K17	3050	M26	7031	N27
2012	N19	3051	N27	7035	I18
2013	K19	3052	N24	7040	M32
2014	K19	3055	I17	7043	I29
2015	L17	3056	H17	7100	D 8
2016	L18	3058	I21	7101	K 8
2017	L27	3060	M30	7102	B 9
2018	N27	3061	L30	7102	J 9
2035	H21	3062	L31	7103	B10
2036	H21	3063	M32	7103	I10
2037	H22	3064	M33	7104	B18
2038	D20	3065	M33	7200	D19
2039	N21	3066	M31	7220	D27
2040	N21	3070	M33	7232	D33
2041	N21	3100	F 5		
2042	M22	3101	F 6		
2043	I29	3102	F 6		
2044	I20	3103	F 7		
2047	J26	3105	F 8		
2048	O22	3105	M 8		
2049	I19	3106	C11		
2050	I17	3106	J11		
2051	I18	3107	B11		
2055	K30	3108	B11		
2056	M30	3108	J11		
2057	L31	3109	A12		
2058	M31	3110	A12		
2059	M32	3112	C13		
2100	E 3	3113	B13		
2101	F 4	3115	C14		
2102	E 4	3115	K14		
2104	E 5	3117	G14		
2105	E 5	3117	N14		
2106	E 6	3119	I13		
2107	E 6	3120	H13		
2108	G 7	3121	H14		
2109	E 7	3122	B 9		
2110	E 5	3122	I 9		
2111	F 6	3123	C 9		
2112	E 7	3123	K 9		
2113	G 9	3124	C10		
2114	G 9	3124	J10		
2114	N 9	3125	A 9		
2115	G 8	3125	H 9		
2115	N 8	3126	C18		
2117	D15	3127	B18		
2117	K15	3128	A17		
2118	G15	3200	A29		
2118	N15	3201	A29		
2119	D13	3202	C25		
2119	K13	3203	C26		
2120	G15	3204	D18		
2122	B 9	3205	F26		
2122	I 9	3206	F27		
2123	G10	3207	D32		
2123	N10	3208	E32		
2124	G10	3209	D33		
2125	C14	3210	D33		
2125	J14	3211	C33		
2126	D10	3213	H33		
2126	K11	3214	H34		
2127	G14	4010	H21		
2127	N14	4014	K17		
2128	H13	4015	L26		
2129	H14	4017	M34		
2130	B17	4018	L18		
2133	I15	4019	K18		
2200	E18	4020	M24		
2201	D18	4021	L26		
2202	B18	4040	I18		
2203	H33	4041	N19		
2205	G25	4042	M25		
2206	E24	4100	B10		
2207	E24	4101	G15		
2208	D24	4102	L 8		
2209	D24	4103	J13		
2210	G26	4104	H13		
2211	G26	4107	N18		
2212	G27	4108	B13		
2213	G29	4201	A27		
2214	G29	4204	F32		
2215	G31	4205	H26		
2216	G31	5010	E 3		
2217	D31	5010	L 6		
2218	D31	5035	I21		
2219	H34	5036	M21		
2220	F33	5037	G22		
2221	D34	5038	N21		
2222	D33	5039	G20		
2404	G21	5042	N23		
3012	K18	5100	F 3		
3013	K18	5101	E 4		
3014	K18	5102	E 8		
3015	M19	5103	B14		
3016	M18	5103	J14		
3017	M20	5104	K11		
3019	K25	5104	C11		
3020	L25	5105	G14		
3021	L27	5105	O14		
3030	L18	6037	G21		
3031	L19	6038	O21		
3036	H22	6039	N26		
3037	H21	6040	K30		
3038	N22	6041	L30		
3039	O22	6042	L30		
3040	O20	6043	M32		
3041	M21	6101	F 5		

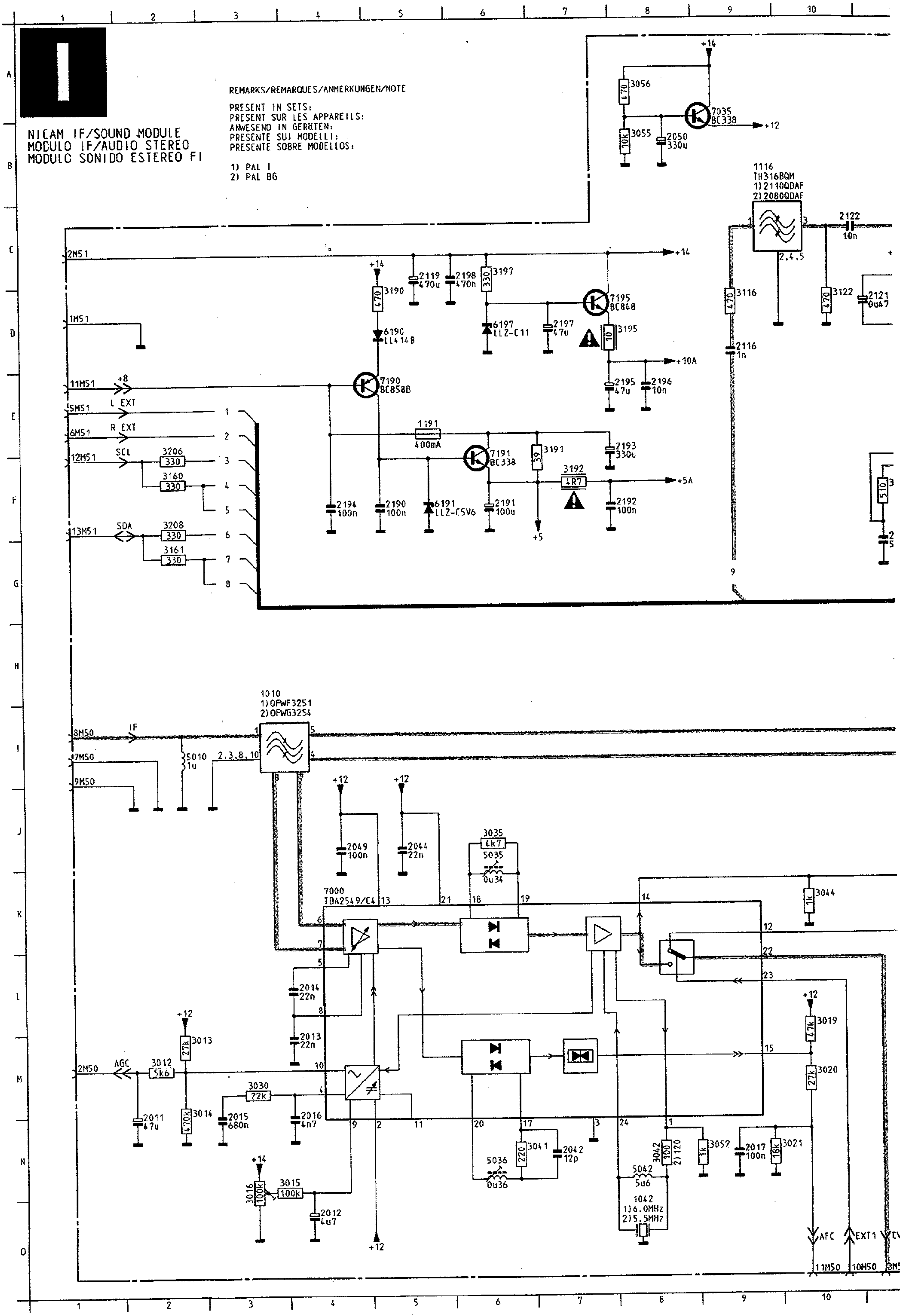
I

NICAM IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI

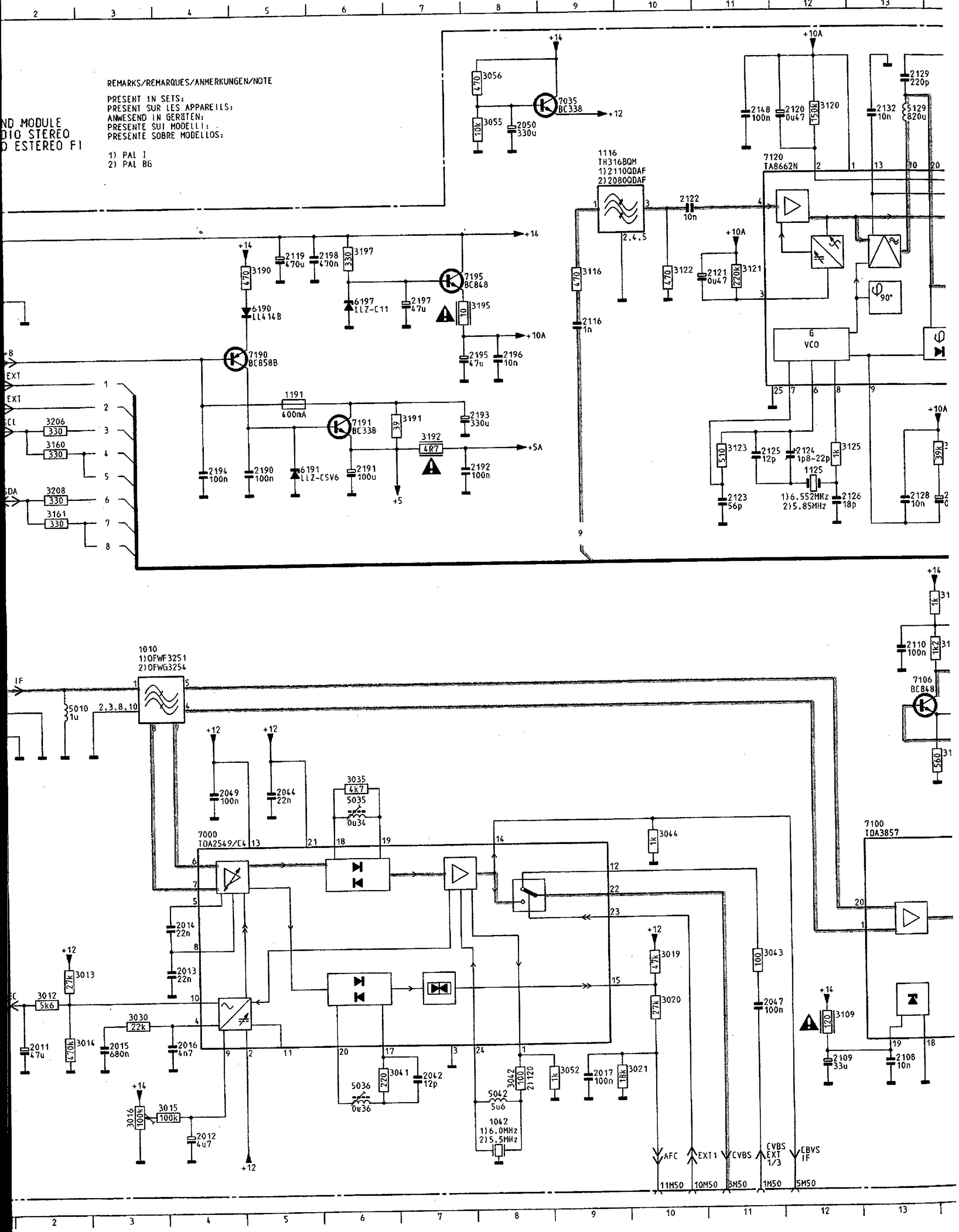
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG



1 2 3 4 5 6 7 8 9 10
A B C D E F G H I J K L M N O
+14
3056 470
7035 BC338
+12
3055 10k
2050 330u
1116 TH316BQM 1)2110QDAF 2)2080QDAF
2122 10n
2.4.5
3116 470
3122 470
2121 0u47
2116 1n
2M51
1M51
11M51 +8
5M51 L EXT
6M51 R EXT
12M51 SCL
13M51 SDA
3206 330
3160 330
3208 330
3161 330
2119 470u
2198 470n
3197 330
3190 470
7195 BC848
6197 LLZ-C11
2197 47u
3195 10
+10A
6190 LL4148
7190 BC858B
2195 47u
2196 10n
1191 400mA
7191 BC338
3191 39
2193 330u
3192 4R7
+5A
2194 100n
2190 100n
6191 LLZ-C5V6
2191 100u
2192 100n
+5
1010 1)OFWF3251 2)OFWG3254
8M50 IF
7M50
9M50
5010 1u
2.3.8.10
2049 100n
2044 22n
3035 4k7
5035 0u34
7000 TDA2549/C4
3044 1k
2014 22n
2013 22n
2M50 AGC
3012 5k6
3013 27k
3014 470k
2011 47u
3030 22k
2015 680n
2016 4n7
3019 47k
3020 27k
5036 0u36
3041 220
2042 12p
3042 100
2120
3052 1k
2017 100n
3021 18k
5042 5u6
1042 1)6.0MHz 2)5.5MHz
3016 100k
3015 100k
2012 4u7
+12
AFC EXT1
11M50 10M50 8M5



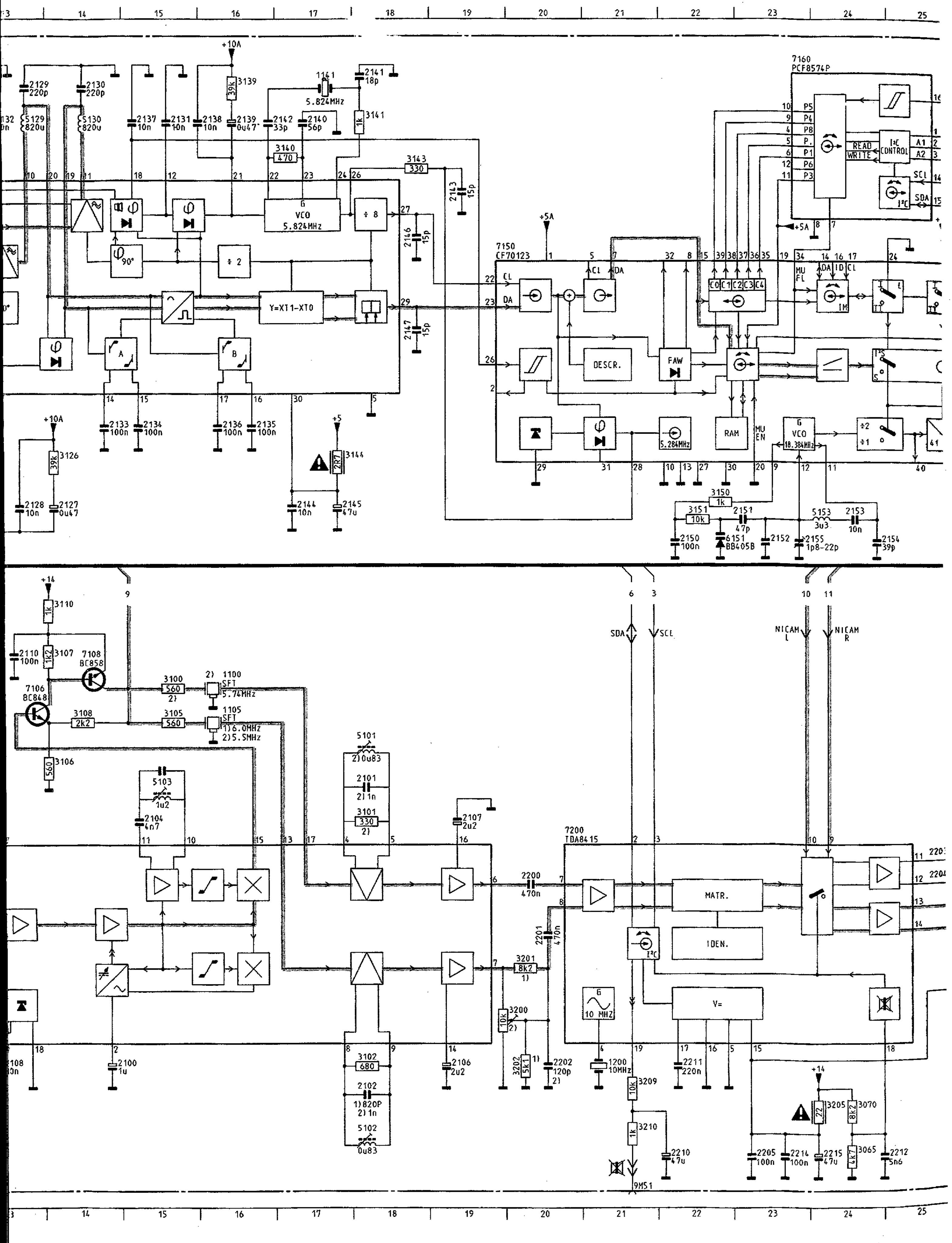
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG

ND MODULE
DIO STEREO
D ESTEREO FI
2 3 4 5 6 7 8 9 10 11 12 13
+14
3056 470
7035 BC338
+12
3055 10k
2050 330u
+10A
2148 100n
2120 0u47
3120 150k
2132 10n
2129 220p
5129 820u
1116 TH316BQM 1)2110QDAF 2)2080QDAF
2,4,5
2122 10n
7120 TA8662N
φ 90°
VCO
3116 470
2116 1n
3122 470
2121 0u47
3121 220k
3123 510
2125 12p
2124 1p8-22p
1125 1)6.552MHz 2)5.85MHz
3125 1k
2123 56p
2126 18p
2128 10n
39k
2119 470u
2198 470n
3197 330
3190 470
6190 LL414B
6197 LLZ-C11
2197 47u
7195 BC848
3195 10
2195 47u
2196 10n
7190 BC858B
1191 400mA
7191 BC338
3191 39
2193 330u
3192 4R7
2194 100n
2190 100n
6191 LLZ-C5V6
2191 100u
2192 100n
+5
+5A
+8
EXT
EXT
SCL
SDA
3206 330
3160 330
3208 330
3161 330
1 2 3 4 5 6 7 8
9
2110 100n
1k
1k2
7106 BC848
560
1010 1)OFWF3251 2)OFWG3254
IF
5010 1u
2,3,8,10
2049 100n
2044 22n
3035 4k7
5035 0u34
7000 TDA2549/C4
3044 1k
2014 22n
2013 22n
3013 27k
3012 5k6
2011 47u
3014 470k
3030 22k
2015 680n
2016 4n7
3016 100k
3015 100k
2012 4u7
3019 47k
3020 27k
3043 100
2047 100n
3109 120
2109 33u
2108 10n
7100 TDA3857
3041 220
2042 12p
5036 0u36
5042 5u6
1042 1)6.0MHz 2)5.5MHz
3042 1)100 2)120
3052 1k
2017 100n
3021 18k
AFC
EXT1
CVBS
CVBS EXT 1/3
CBVS IF
11M50
10M50
3M50
1M50
5M50

NICAM IF/sound module / NICAM ZF/Tonmodul /



14
15
16
17
18
19
20
21
22
23
24
25
+10A
3139
39k
1141
5.824MHz
2141
18p
3141
1k
2129
220p
2130
220p
5129
820u
5130
820u
2137
10n
2131
10n
2138
10n
2139
0u47
2142
33p
2140
56p
3140
470
3143
330
2143
15p
VCO
5.824MHz
÷ 8
÷ 2
2146
15p
2147
15p
Y=XT1-XT0
90°
A
B
2133
100n
2134
100n
2136
100n
2135
100n
+10A
3126
39k
2128
10n
2127
0u47
+5
3144
2R7
2144
10n
2145
47u
7150
CF70123
+5A
CL
DA
DESCR.
FAW
RAM
MU
EN
MU
FL
C0
C1
C2
C3
C4
IM
I²S
S
5.284MHz
VCO
18.384MHz
÷2
÷1
3150
1k
3151
10k
2151
47p
5153
3u3
2153
10n
2150
100n
6151
BB405B
2152
2155
1p8-22p
2154
39p
7160
PCF8574P
P5
P4
P8
P.
P1
P6
P3
READ
WRITE
I²C
CONTROL
A1
A2
SCL
SDA
+5A
+14
3110
1k
2110
100n
3107
1K2
7108
BC858
7106
BC848
3100
560
1100
SFT
5.74MHz
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NICAM R
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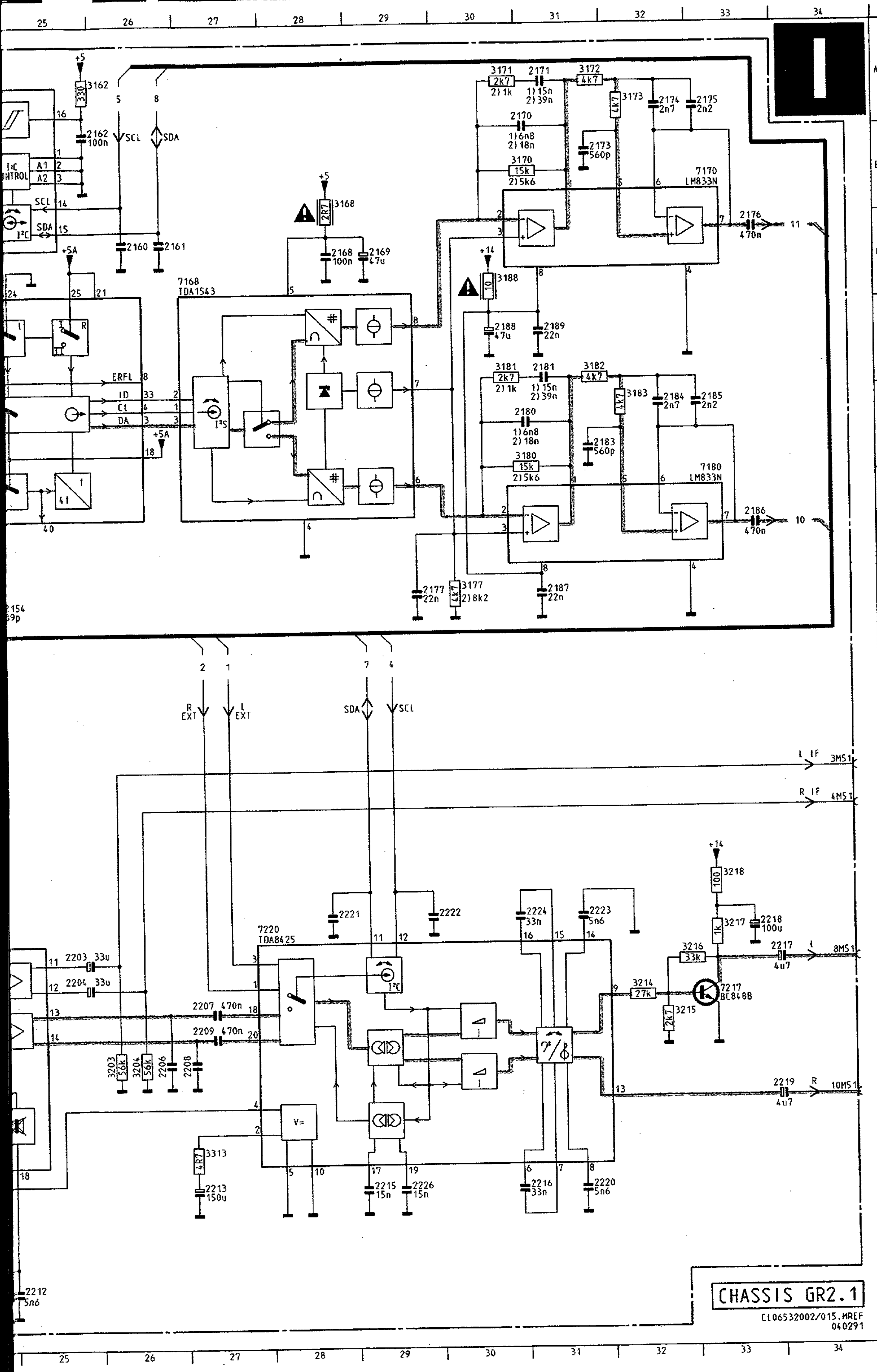
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L EXT
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SCL
L IF
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R IF
4MS1
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100u
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2222
2224
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TDA8425
I²C
2203
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CL06532002/015.MREF
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1141	A17	2224	K31
1191	E 5	2226	N29
1200	N21	3012	M 2
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2014	L 4	3016	N 3
2015	N 3	3019	L10
2016	N 4	3020	M10
2017	N 9	3021	N 1
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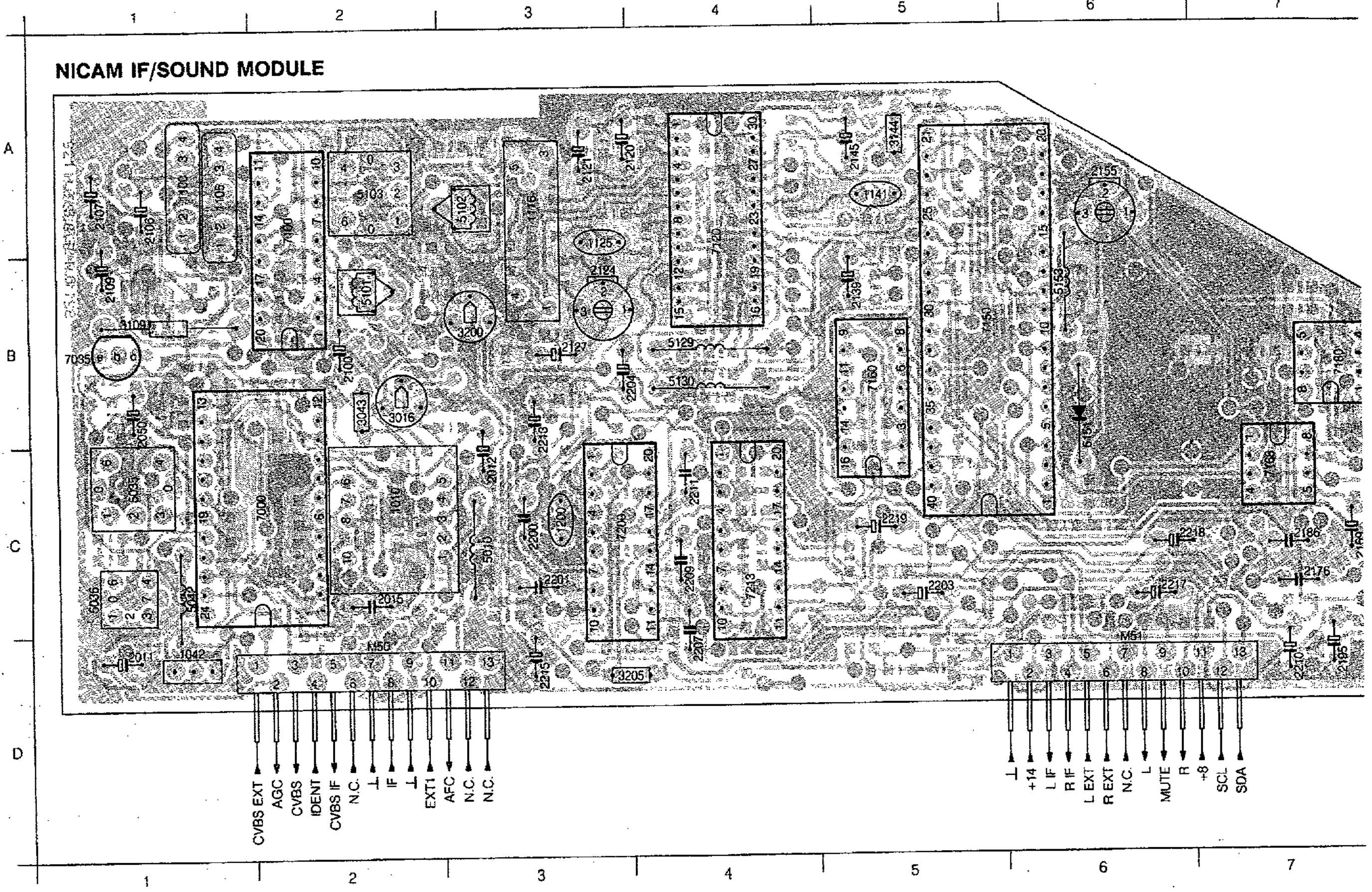
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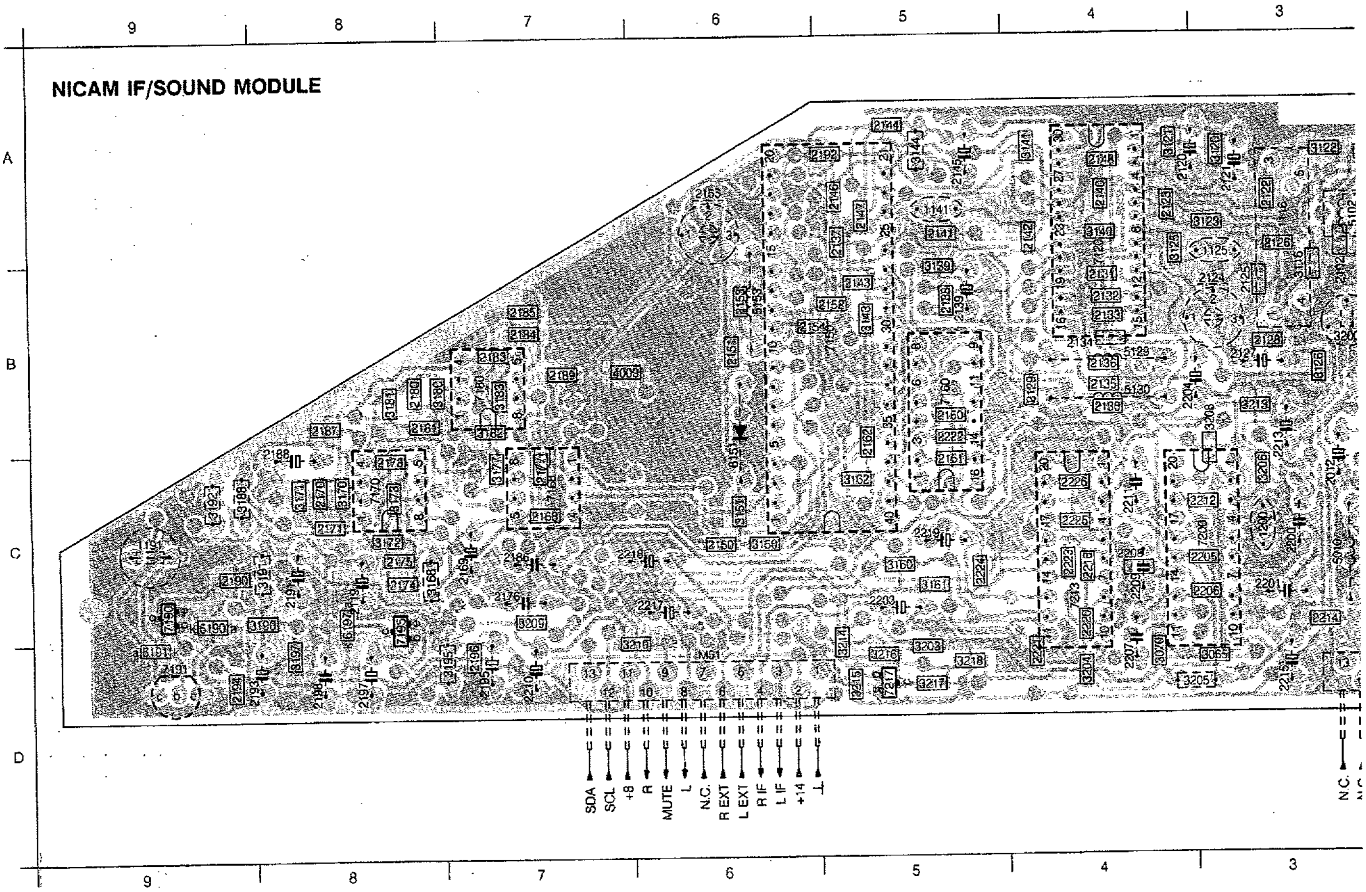
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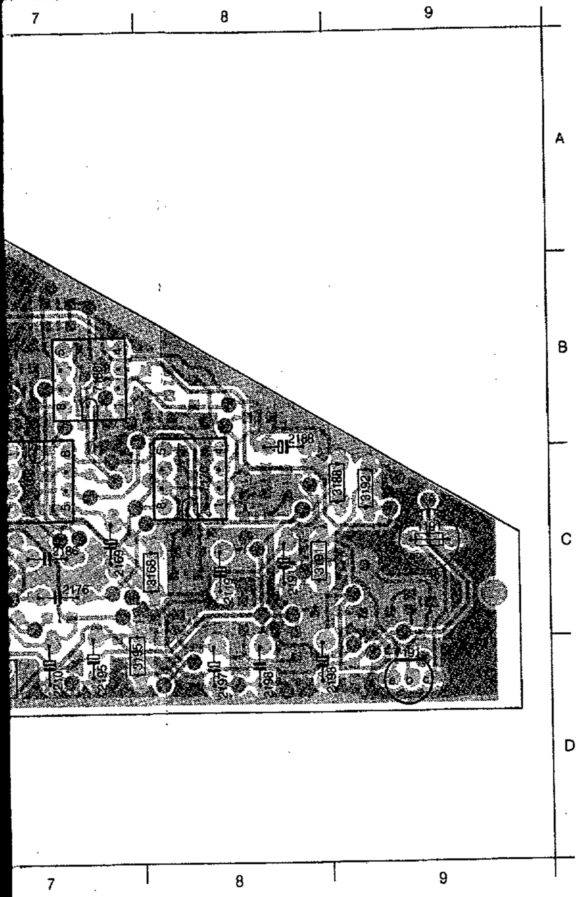
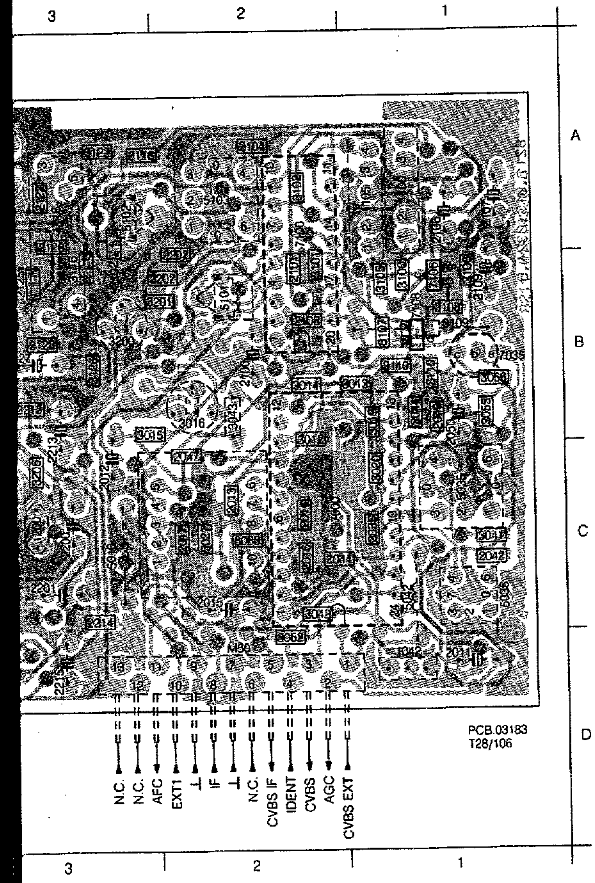
Module FI/son NICAM





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2012	C3
2013	C2
2014	C2
2015	C2
2016	C2
2017	C2
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2050	B1
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2101	B2
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2104	A2
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2109	B1
2110	B1
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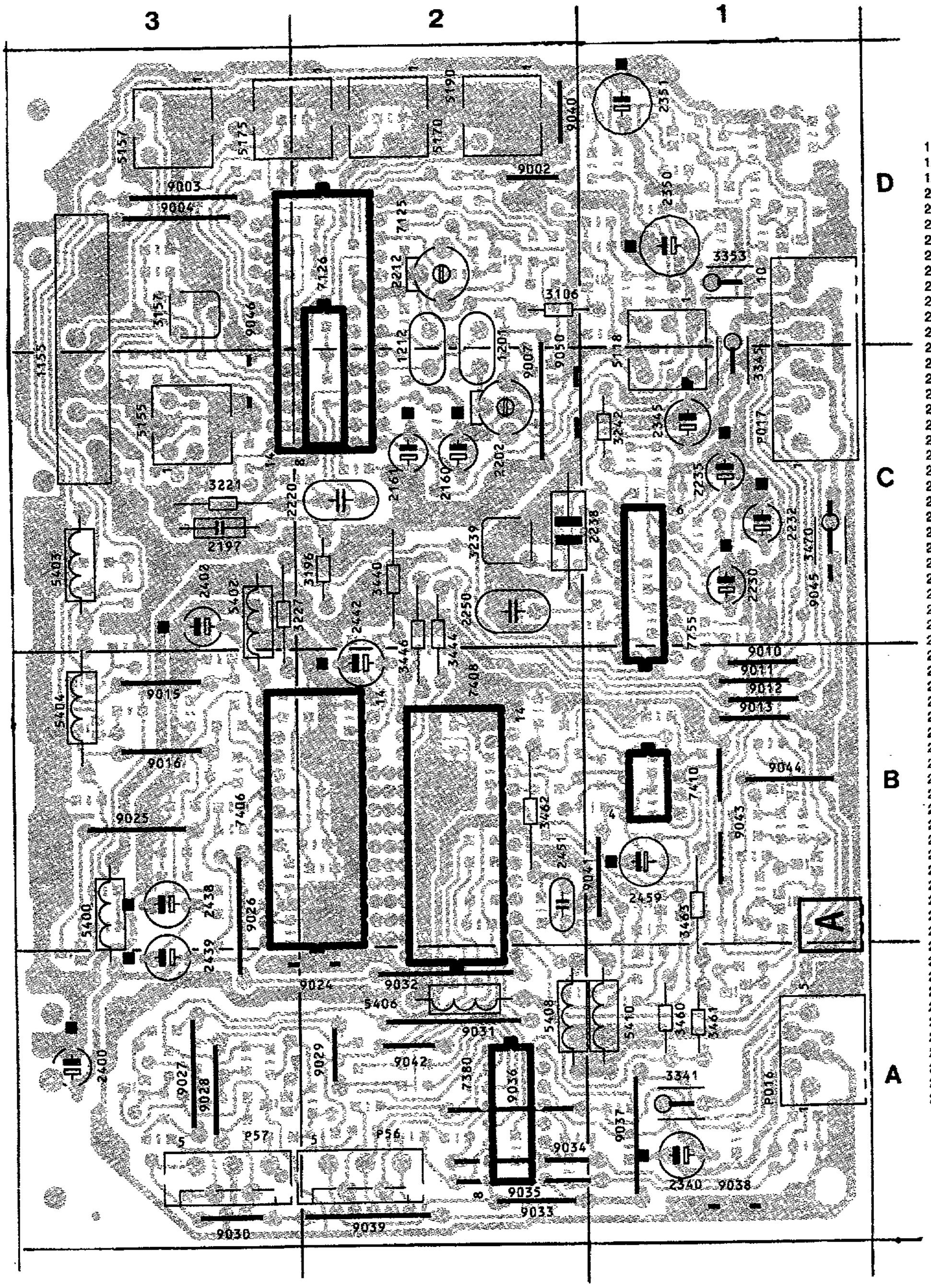
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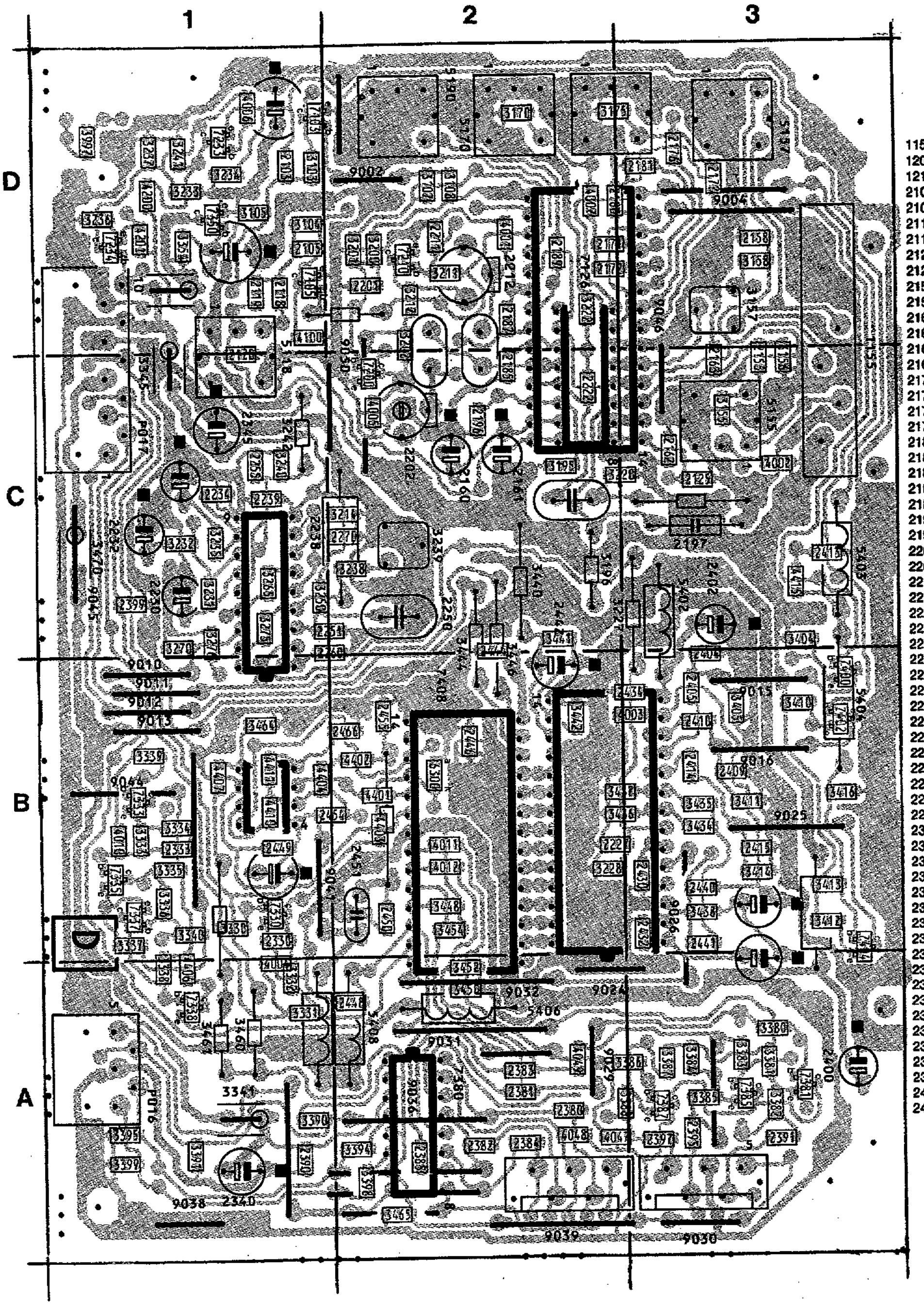

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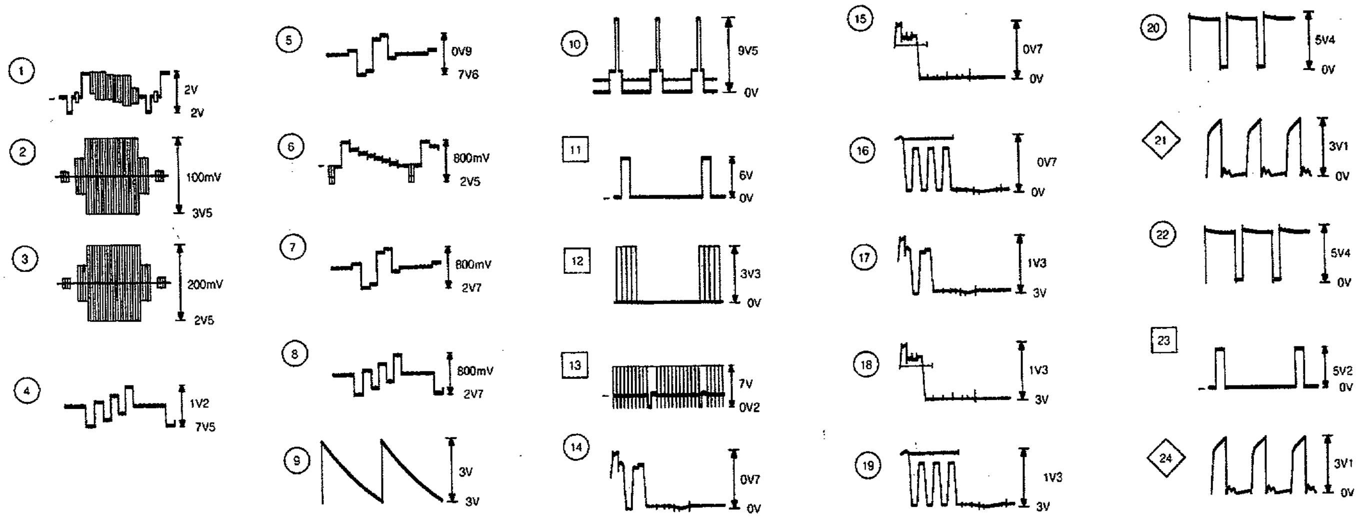
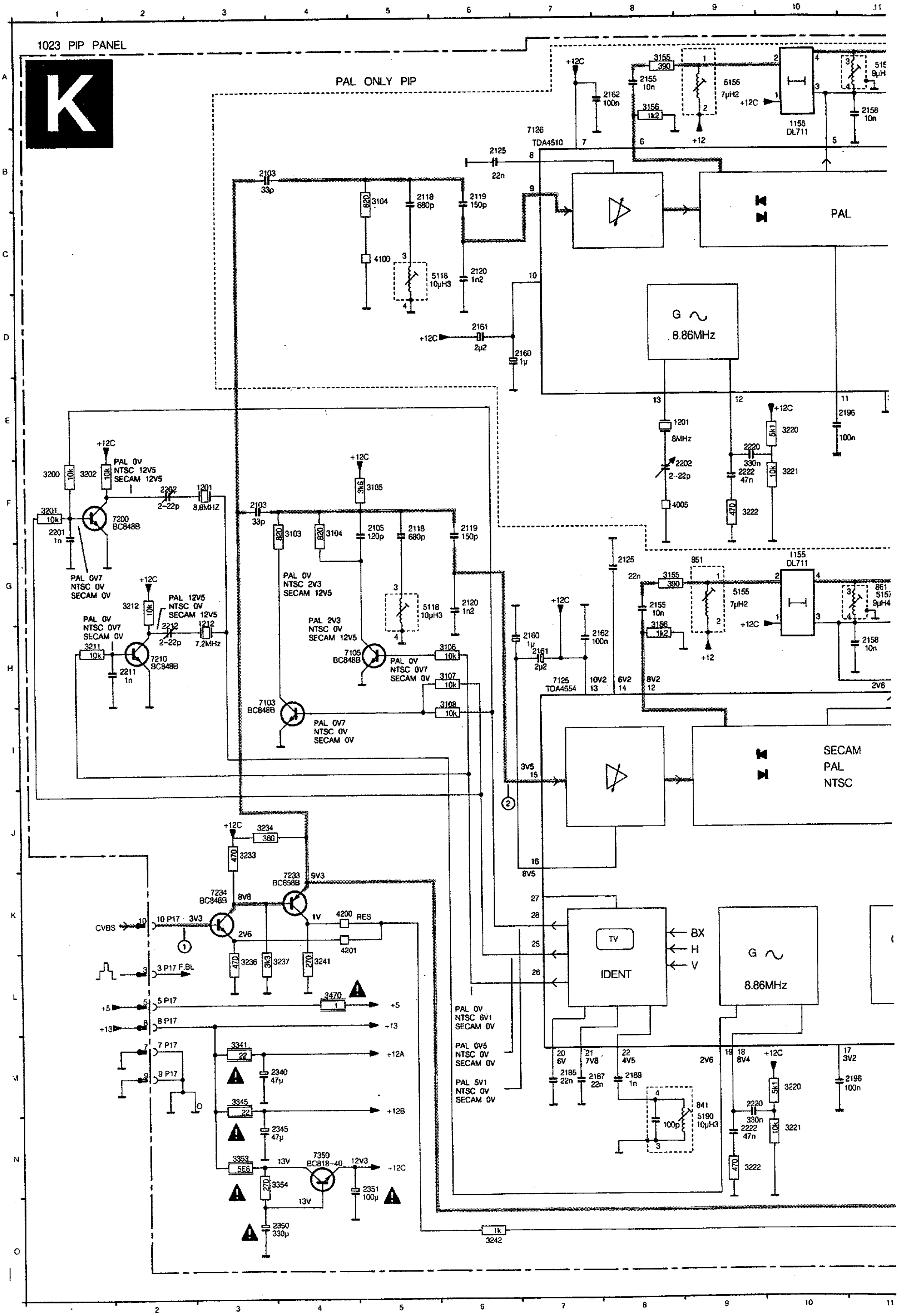
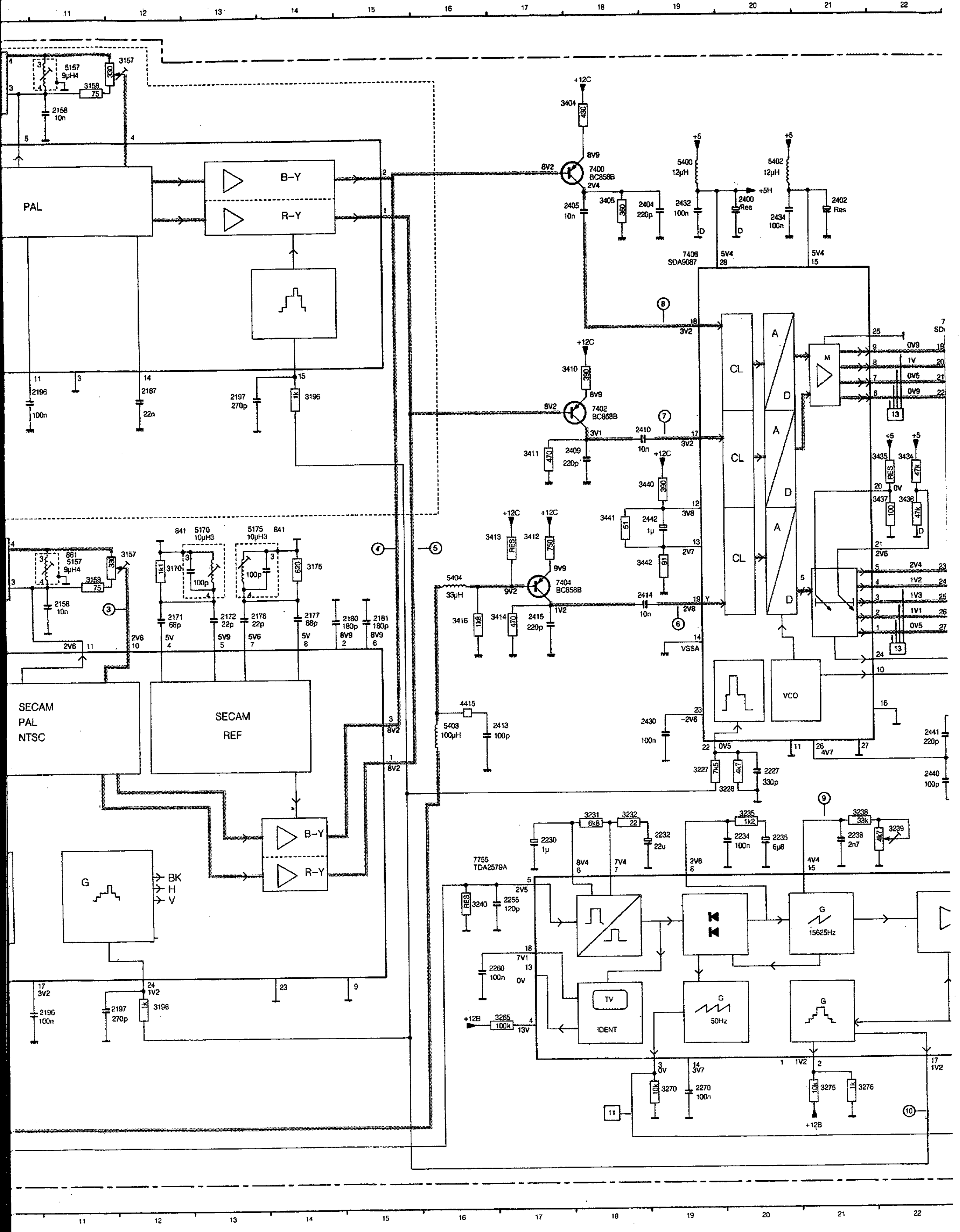
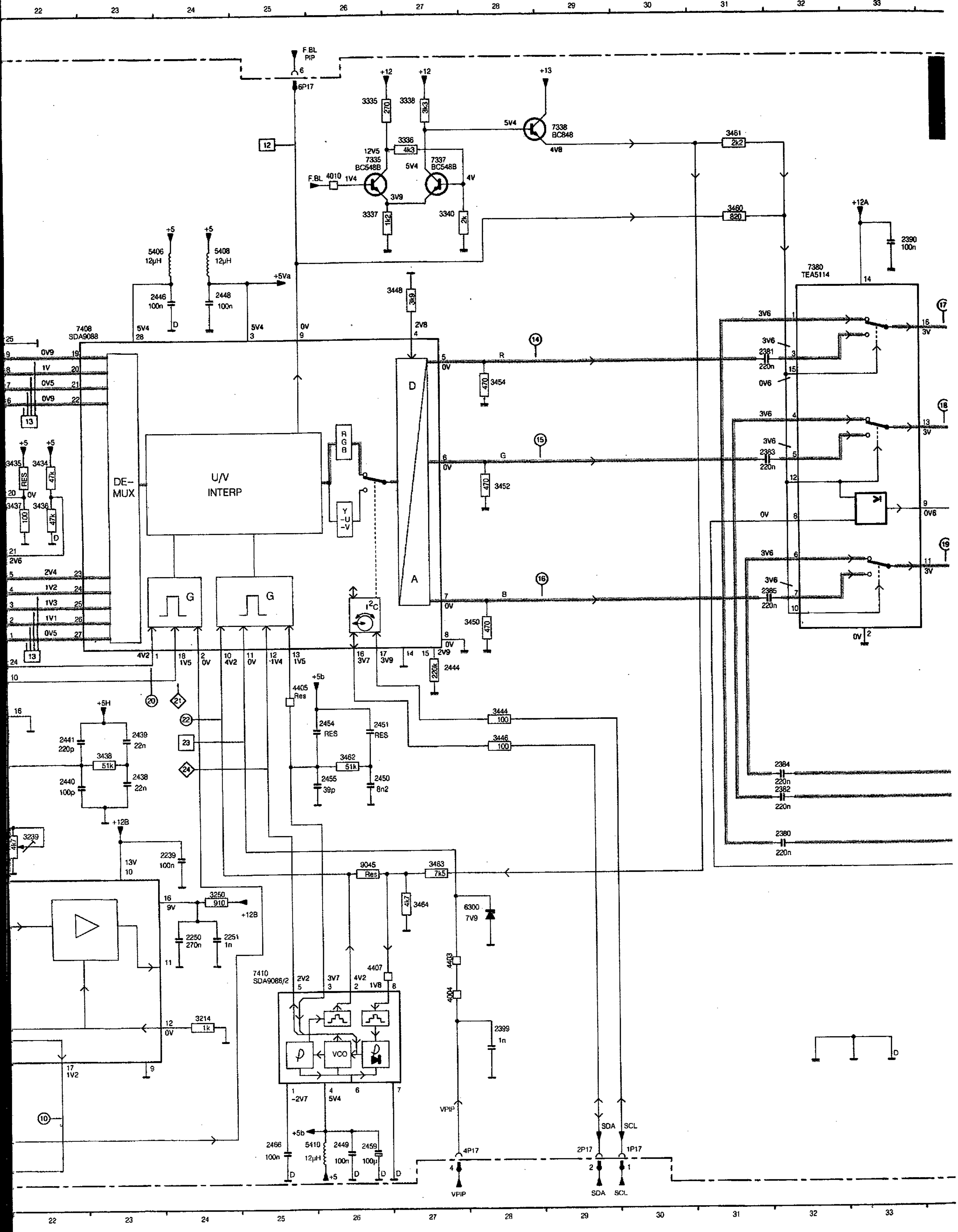
2162 C3	2441 B3	3339 B1	4049 A2	9025 B3
2163 C3	2442 B2	3340 B1	4100 D1	9026 B3
2171 D2	2444 C2	3341 A1	4200 D1	9027 A3
2172 D2	2446 B2	3345 C1	4201 D1	9028 A3
2176 D3	2448 A2	3353 D1	4401 B2	9029 A2
2177 D3	2449 B1	3354 D1	4402 B2	9030 A3
2180 D2	2450 B2	3380 A3	4403 B2	9031 A2
2181 D3	2451 B2	3381 A3	4404 B1	9032 A2
2185 C2	2454 B1	3382 A3	4406 A1	9033 A2
2187 D2	2455 B2	3383 A3	4407 B1	9034 A2
2189 D2	2459 B1	3384 A3	4410 B1	9035 A2
2196 C2	2466 B2	3385 A3	4411 B1	9036 A2
2197 C3	3103 D1	3386 A2	4415 C3	9037 A1
2201 D2	3104 D1	3387 A3	5118 D1	9038 A1
2202 C2	3105 D1	3388 A2	5155 C3	9039 A2
2211 D2	3106 D2	3390 A1	5157 D3	9040 D2
2212 D2	3107 D2	3391 A1	5170 D2	9041 B1
2220 C2	3108 D2	3394 A2	5175 D2	9042 A2
2222 C2	3155 C3	3395 A1	5190 D2	9043 B1
2227 B2	3156 C3	3398 A2	5400 B3	9044 B1
2230 C1	3157 D3	3399 A1	5402 C3	9045 C1
2232 C1	3158 D3	3404 C3	5403 C3	9046 C3
2234 C1	3170 D2	3405 B3	5404 B3	9050 C2
2235 C1	3175 D2	3410 B3	5406 A2	P016 A1
2238 C2	3195 C2	3411 B3	5408 A2	P017 C1
2239 C1	3196 C2	3412 B3	5410 A1	P56 A2
2250 C2	3200 D2	3413 B3	6300 B2	P57 A3
2251 C1	3201 D2	3414 B3	7103 D1	
2255 C1	3202 D2	3416 B3	7105 D1	
2260 C1	3211 D2	3434 B3	7125 D3	
2270 C2	3212 D2	3435 B3	7126 D2	
2330 B1	3214 C2	3436 B2	7200 C2	
2333 B1	3220 C2	3437 B2	7210 D2	
2340 A1	3221 C3	3438 B3	7233 D1	
2345 C1	3222 D2	3440 C2	7234 D1	
2350 D1	3227 C3	3441 C2	7330 B1	
2351 D1	3228 B2	3442 B2	7333 B1	
2380 A2	3231 C1	3444 C2	7335 B1	
2381 A2	3232 C1	3446 C2	7337 B1	
2382 A2	3233 D1	3448 B2	7338 A1	
2383 A2	3234 D1	3450 A2	7350 D1	
2384 A2	3235 C1	3452 A2	7380 A2	
2385 A2	3236 D1	3454 B2	7381 A3	
2390 A1	3237 D1	3460 A1	7385 A3	
2391 A3	3238 C2	3461 A1	7387 A3	
2395 A3	3239 C2	3462 B2	7400 B3	
2397 A3	3240 C1	3463 B1	7402 B3	
2399 C1	3241 D1	3464 B1	7404 B3	
2400 A3	3242 C1	3465 A2	7406 B2	
2402 C3	3250 C1	3470 C1	7408 A2	

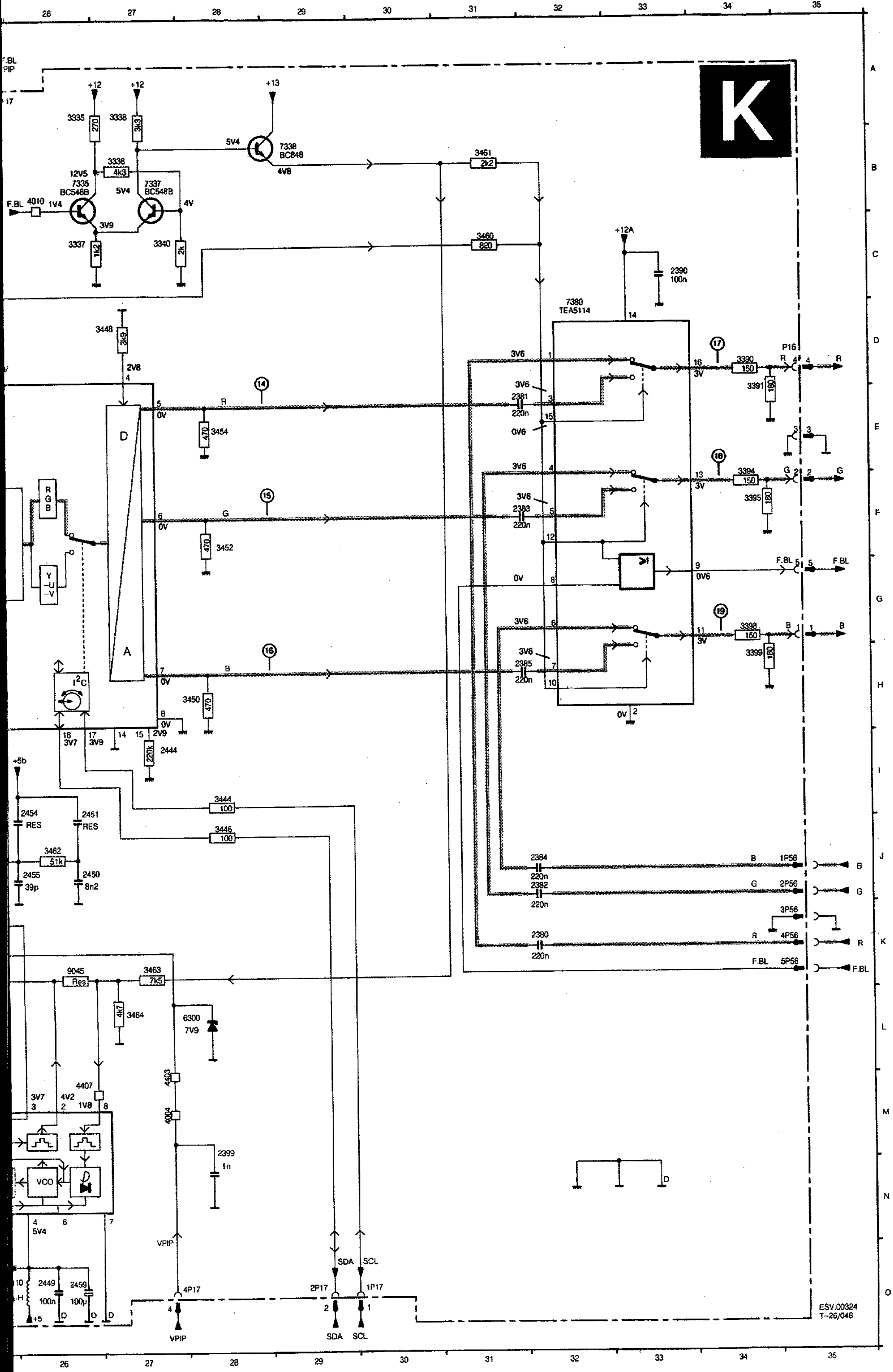


PIP module / PIP-Modul / Module PIP


1023 PIP PANEL
K
PAL ONLY PIP
7126
TDA4510
PAL
G ∿
8.86MHz
1155
DL711
5155
7µH2
3155
390
3156
1k2
2155
10n
2162
100n
2158
10n
2125
22n
2103
33p
3104
820
2118
680p
2119
150p
2120
1n2
4100
5118
10µH3
2161
2µ2
2160
1µ
1201
8MHz
2202
2-22p
4005
2196
100n
2220
330n
2222
47n
3220
5k1
3221
10k
3222
470
+12C
+12
3200
10k
3202
3201
2201
1n
7200
BC848B
PAL 0V
NTSC 12V5
SECAM 12V5
2-22p
8.8MHZ
PAL 0V7
NTSC 0V
SECAM 0V
3212
7210
BC848B
3211
2211
1n
7,2MHz
PAL 0V
NTSC 0V7
SECAM 0V
PAL 12V5
NTSC 0V
SECAM 12V5
3105
3k6
3103
2105
120p
PAL 0V
NTSC 2V3
SECAM 12V5
PAL 2V3
NTSC 0V
SECAM 12V5
7105
BC848B
7103
BC848B
3106
3107
3108
10k
PAL 0V7
NTSC 0V
SECAM 0V
7125
TDA4554
10V2
6V2
8V2
3V5
SECAM
PAL
NTSC
8V5
IDENT
TV
BX
H
V
2185
22n
2187
22n
2189
1n
841
5190
10µH3
100p
851
861
5157
9µH4
2V6
8V4
3V2
+12C
3234
360
3233
470
7234
BC848B
7233
BC858B
9V3
8V8
1V
2V6
4200
RES
4201
3236
3237
3k3
3241
270
CVBS
10 P17 3V3
3 P17 F.BL
5 P17
8 P17
7 P17
9 P17
+5
+13
3470
+12A
+12B
3341
22
2340
47µ
3345
2345
47µ
3353
5E6
13V
7350
BC818-40
12V3
3354
270
2351
100µ
2350
330µ
3242
1k
PAL 0V
NTSC 6V1
SECAM 0V
PAL 0V5
NTSC 0V
SECAM 0V
PAL 5V1
NTSC 0V
SECAM 0V
①
②


PAL
B–Y
R–Y
5157
9µH4
3157
3158
75
330
2158
10n
2196
100n
2187
22n
2197
270p
3196
1k
SECAM
PAL
NTSC
SECAM
REF
G
BK
H
V
841
5170
10µH3
5175
10µH3
3170
1k1
3175
620
2171
68p
2172
22p
2176
22p
2177
68p
2180
180p
2181
180p
2V6
5V
5V9
5V6
8V9
8V2
3V2
1V2
+12C
3404
430
7400
BC858B
8V9
2V4
2405
10n
3405
360
2404
220p
+5
5400
12µH
2432
100n
2400
Res
+5H
5402
12µH
2434
100n
2402
Res
7406
SDA9087
5V4
CL
A
D
M
VCO
3410
390
7402
BC858B
3V1
2409
220p
3411
470
2410
10n
3440
390
3441
51
2442
1µ
3442
91
3V8
2V7
3413
RES
3412
750
9V9
7404
BC858B
5404
33µH
9V2
3416
1k8
3414
470
2415
220p
2414
10n
Y
2V8
VSSA
4415
5403
100µH
2413
100p
2430
100n
–2V6
0V5
3227
7k5
3228
4k7
2227
330p
4V7
3435
RES
3434
47k
3437
100
3436
47k
0V9
1V
0V5
1V2
1V3
1V1
2441
220p
2440
100p
7755
TDA2579A
3231
6k8
3232
22
2230
1µ
2232
22u
3235
1k2
2234
100n
2235
6µ8
3238
33k
2238
2n7
3239
4k7
8V4
7V4
4V4
3240
RES
2255
120p
2V5
2260
100n
7V1
0V
TV
IDENT
+12B
3265
100k
13V
15625Hz
50Hz
3270
10k
2270
100n
3V7
3275
10k
3276
1k
11
11 12 13 14 15 16 17 18 19 20 21 22


F.BL PIP
6P17
12
+12
3335 270
3338 3k3
3336 4k3
12V5
7335 BC548B
7337 BC548B
5V4
4V
F.BL 4010 1V4
3V9
3337 1k2
3340 2k
+13
7338 BC848
4V8
3461 2k2
3460 820
+12A
2390 100n
7380 TEA5114
+5
5406 12μH
5408 12μH
2446 100n
2448 100n
+5Va
3448 3k9
2V8
7408 SDA9088
5V4 28
5V4 3
0V 9
DE-MUX
U/V INTERP
R G B
Y -U -V
D
A
I²C
G
R
G
B
14
15
16
17
18
19
3454 470
3452 470
3450 470
2381 220n
2383 220n
2385 220n
3V6
0V6
3V
0V
3435 RES
3434 47k
3437 100
3436 47k
13
20
21
22
23
24
2444 220k
4405 Res
+5b
2454 RES
2451 RES
3462 51k
2455 39p
2450 8n2
3444 100
3446 100
+5H
2441 220p
2439 22n
3438 51k
2440 100p
2438 22n
+12B
3239
2239 100n
13V
3250 910
2250 270n
2251 1n
9045 Res
3463 7k5
3464 4k7
6300 7V9
4403
4004
2399 1n
4407
7410 SDA9086/2
VCO
3214 1k
2384 220n
2382 220n
2380 220n
2466 100n
5410 12μH
2449 100n
2459 100μ
VPIP
4P17
2P17
1P17
SDA
SCL
22
23
24
25
26
27
28
29
30
31
32
33


K
26
27
28
29
30
31
32
33
34
35
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
F.BL
PIP
17
+12
+12
+13
3335
270
3338
3k3
5V4
7338
BC848
4V8
12V5
3336
4k3
7335
BC548B
7337
BC548B
5V4
F.BL
4010
1V4
3V9
4V
3337
1k2
3340
2k
3461
2k2
3460
820
+12A
2390
100n
7380
TEA5114
14
3448
3k9
2V8
4
D
A
R
G
B
Y
-U
-V
I²C
⑭
⑮
⑯
⑰
⑱
⑲
5
0V
6
0V
7
0V
8
0V
R
G
B
3454
470
3452
470
3450
470
16
3V7
17
3V9
14
15
2V9
220k
2444
3V6
1
3V6
2381
220n
3
15
0V6
16
3V
3390
150
3391
180
P16
R
4
3
2
3V6
4
3V6
2383
220n
5
12
13
3V
3394
150
3395
180
F.BL
5
9
0V6
0V
8
3V6
6
3V6
2385
220n
7
10
11
3V
3398
150
3399
180
1
0V
2
+5b
2454
RES
2451
RES
3462
51k
2455
39p
2450
8n2
3444
100
3446
100
2384
220n
1P56
2382
220n
2P56
3P56
2380
220n
4P56
F.BL
5P56
9045
Res
3463
7k5
3464
4k7
6300
7V9
4403
4004
4407
3V7
3
4V2
2
1V8
8
VCO
4
5V4
6
7
2399
1n
VPIP
SDA
SCL
2449
100n
2459
100µ
D
+5
4P17
2P17
1P17
4
2
1
VPIP
SDA
SCL
ESV.00324
T-26/048

1155	B10
1155	G10
1201	E9
1201	F3
1212	H3
2103	B4
2103	F3
2105	F5
2118	B5
2118	F5
2119	B6
2119	F6
2120	C6
2120	G6
2125	B6
2125	G8
2155	A8
2155	G8
2158	A11
2158	H11
2160	D7
2160	H7
2161	D6
2161	H7
2162	A8
2162	H8
2171	H12
2172	H13
2176	H13
2177	H14
2180	H15
2181	H15
2185	M7
2187	E12
2187	M7
2189	M8
2196	E11
2196	M11
2197	E13
2197	M12
2201	F1
2202	F2
2202	F9
2211	H2
2212	H2
2220	E9
2220	M9
2222	F9
2222	N9
2227	J20
2230	K17
2232	K19
2234	K20
2235	K20
2238	K21
2239	K24
2250	L24
2251	L24
2255	L17
2260	M16
2270	N19
2340	M3
2345	N3
2350	O3
2351	N5
2380	K32
2381	E32
2382	J32
2383	F32
2384	J32
2385	H32
2390	C33
2399	M28
2400	C20
2402	C21
2404	C19
2405	C18
2409	F18
2410	F19
2413	I17
2414	H19
2415	H17
2430	I19
2432	C19
2434	C20
2438	J23
2439	J23
2440	J22
2441	J22
2442	G19
2444	I27
2446	D24
2448	D24
2449	O26
2450	J26
2451	I26
2454	I26
2455	J26
2459	O26
2466	O25
3103	F4
3104	B5
3104	F4
3105	F5
3106	H6
3107	H6
3108	I6
3155	A8
3155	G8
3156	A8
3156	H8
3157	A12
3157	G12
3158	A11
3158	G11
3170	G12
3175	G14
3196	E14
3196	M12
3200	F1
3201	F1
3202	F1
3211	H1
3212	G2
3214	M24
3220	E10
3220	M10
3221	F10
3221	N10
3222	F9
3222	N9
3227	J19
3228	J20
3231	K18
3232	K18
3233	J3
3234	J3
3235	K20
3236	L3
3237	L3
3238	K21
3239	K22
3240	L16
3241	L4
3242	O6
3250	L24
3265	M17
3270	N19
3275	N21
3276	N21
3335	A26
3336	B27
3337	C26
3338	A27
3340	C27
3341	M3
3345	M3
3353	N3
3354	N3
3390	D34
3391	E34
3394	F34
3395	F34
3398	G34
3399	H34
3404	A18
3405	C18
3410	E18
3411	F17
3412	G17
3413	G17
3414	H17
3416	H16
3434	F22
3435	F22
3436	G22
3437	G22
3438	J23
3440	F19
3441	G18
3442	G19
3444	I28
3446	J28
3448	D27
3450	H28
3452	F28
3454	E28
3460	C31
3461	B31
3462	J26
3463	K27
3464	L27
3470	L4
4004	M27
4005	F9
4010	B26
4100	C5
4200	K4
4201	K4
4403	M27
4405	I25
4407	M26
4415	I16
5118	C6
5118	G5
5155	A9
5155	G9
5157	A11
5157	G11
5170	G13
5175	G13
5190	N9
5400	B19
5402	B20
5403	I16
5404	G16
5406	C24
5408	C24
5410	O25
6300	L28
7103	H4
7105	H5
7125	H7
7126	B7
7200	F2
7210	H2
7233	K4
7234	K3
7335	B26
7337	B27
7338	B29
7350	N4
7380	D32
7400	B18
7402	E18
7404	H17
7406	C19
7408	D23
7410	M25
7755	K16
9045	K26

Electrical settings

Setting conditions.

All electrical settings should be made under the following conditions:

- supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
- warming-up time ≈ 10 minutes
- the voltages and oscillograms have been measured with regard to tuner earth.
- measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631.
Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:
* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight.
Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Picture width

Set using potentiometer 3525.

1.7 Vertical centring

Set using potentiometer 3516.

1.8 Picture height

Set using potentiometer 3504.

1.9 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filte

a. Setting for PAL/SECAM s
Connect a signal generat
pin 20 of the euroconnec
frequency to 4.286 MHz/
to EXT1. Connect pin 27-
(+12V). Connect an oscill
Set 5301 to maximum am
Remove the interconnecti

b. Setting for PAL sets (TD
Connect a signal generat
pin 20 of the euroconnec
frequency to 4.43 MHz. C
Connect an oscilloscope
Set 5301 to maximum am

1.11 Chroma auxiliary oscil

Connect a pattern genera
colour bar pattern. Conne
(TDA4510) or pin 17-IC7
Set 2313 so that the colo
practically stopped. Rem

1.12 SECAM demodulators (TDA4650)

Connect a pattern genera
black pattern. Connect ar
pin 1-IC7306. Set 5304 t
Connect the oscilloscope
to minimum amplitude.

1.13 White balance

Connect a pattern genera
picture. Switch on the se
and select "WHITE BALA
Set the values of "GREE
required white balance is

1.14 Peak white limit

Switch on the service me
select "WHITE BALANCE
Set "WHITE LIMIT" to the
- 23 for blackline units
- 53 for non-blackline u
- 53 for 21" units.

1.15 Cut-off points of the p

Connect a pattern genera
picture. Switch on the se
"CUT OFF". Switch on "D
Set "RED", "GREEN" and
respective guns give no

1.16 Options

Switch on the service me
or "OPTION 2".
Switch the options "ON"
whether the following op
- "PIP" on a PIP set
- "2ND SCART" on a se
- "TELETEXT" on a tele
- "AUTO STORE" for th
  in the installation men
- "SVHS" for the Y/C cc
- "MULTI SYSTEM" for
- "HYPERBAND" for a t
  to the frequency band
- "UHF ONLY" for a tun
  to the UHF band
- "NICAM TWIN" for ste
  receive NICAM sound

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1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306. Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL sets (TDA4510)
Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305.
Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306. Set 5304 to minimum amplitude. Connect the oscilloscope to pin 3-IC7306. Set 3312 to minimum amplitude.

1.13 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set the values of "GREEN" and "BLUE" so that the required white balance is achieved.

1.14 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:
- 23 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.15 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu and select "CUT OFF". Switch on "DISABLE" ("ON").
Set "RED", "GREEN" and "BLUE" until the respective guns give no more light on the screen.

1.16 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2".
Switch the options "ON" and "OFF" according to whether the following options are present:
- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "AUTO STORE" for the automatic tuning facility in the installation menu
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.

2. Settings on the IF/sound module

2.1 AFC and the picture demodulator

a. Setting for multisystem units
Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 33.4 MHz for mono sets or to 33.95 MHz for stereo sets. Modulate (AM) the signal with, for example, 1kHz.
Tune mono sets to VHF1 band at a tuning voltage of approximately 5V at pin 11 of the tuner. The "search" (selection B of the manual installation menu) can be stopped by selecting menu selection C "programme".
Set stereo sets to a tuning frequency of 45 MHz.
Select system France.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.
Then set the frequency of the signal generator to 38.9 MHz. Select system Europe on the set.
AFC: using 5038 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5037 to a maximum (undistorted) signal at pin 22-IC7000.
Adjacent channel suppression (mono sets):
Then set the frequency of the signal generator to 33.4 MHz. Place pin 9-IC7000 at a fixed voltage of +1V using a laboratory supply. Tune the set to the UHF band and select system France.
Set 5005 to a minimum signal at pin 22-IC7000.

b. Setting for single-system units
Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with, for example, 1kHz.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

2.2 RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.3 MF-AGC (Multisystem units)

Connect a pattern generator and supply a SECAM-L colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the video signal with 3048 to 1.7 Vpp for stereo units or to 1.8 Vpp for mono units.

2.4 AM-IF sound filter (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 30.9 MHz. Modulate (AM) the signal with 1kHz, for example. Tune the unit to UHF band and select system France. Connect an oscilloscope to pin 9-IC7100 and set 5100 to minimum amplitude.
Place pin 3-IC7100 on a fixed voltage of +2V using a laboratory supply.
Set the frequency of the generator to 32.4 MHz and set 5101 and 5102 to maximum amplitude.

e IF/sound module

ture demodulator
system units
enerator (e.g. PM 5326) via a
pin 17 of the tuner and set its
MHz for mono sets or to
reo sets. Modulate (AM) the
mple, 1kHz.
VHF1 band at a tuning voltage
V at pin 11 of the tuner. The
B of the manual installation
ped by selecting menu selection

a tuning frequency of 45 MHz.
ce.
et the voltage at pin 15-IC7000

tor: set 5035 to a maximum
l at pin 22-IC7000.
ency of the signal generator to
system Europe on the set.
et the voltage at pin 15-IC7000

tor: set 5037 to a maximum
l at pin 22-IC7000.
suppression (mono sets):
ency of the signal generator to
in 9-IC7000 at a fixed voltage of
atory supply. Tune the set to the
ect system France.
mum signal at pin 22-IC7000.

system units
enerator (e.g. PM 5326) via a
pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
1kHz.
et the voltage at pin 15-IC7000

tor: set 5035 to a maximum
l at pin 22-IC7000.

a strong local transmitter is
16 *until the picture is not*

stem units)
generator and supply a
ar signal. Connect an
22-IC7000. Set the amplitude of
ith 3048 to 1.7 Vpp for stereo
for mono units.

er (Multisystem units)
enerator (e.g. PM 5326) via a
pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
mple. Tune the unit to UHF band
France. Connect an oscilloscope
d set 5100 to minimum

on a fixed voltage of +2V using
y.
of the generator to 32.4 MHz
5102 to maximum amplitude.

2.5 **IF sound demodulator** (stereo and NICAM units)
Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 16-IC7101 (TDA3856) and set 5104 to minimum amplitude.

2.6 **5.5 MHz or 6.0 MHz FM sound demodulator**
Connect a pattern generator and supply a PAL signal with FM mono sound. Set 5105 (mono and stereo units) or 5102 (NICAM units) to maximum sound reproduction.

2.7 **5.742 MHz FM sound demodulator** (stereo and NICAM *units*)
Connect a pattern generator and supply a PAL BG signal with two-language sound. Select language II on the unit with the remote control.
Set 5103 (stereo units) or 5101 (NICAM units) to maximum sound reproduction.

2.8 **Stereo matrix** (stereo and NICAM units)
Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit *completely to the left.*
Set 3204 (stereo units) or 3200 (NICAM units) to minimum sound reproduction.

2.9 **NICAM demodulator** (NICAM units)
Connect a pattern generator and supply a PAL signal with NICAM sound. Connect the X-input of the oscilloscope to pin 19-IC7120. Connect the Y-input of the oscilloscope to pin 20-IC7120. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y *position* so that the cross pattern is in the centre of the oscilloscope picture.
Set 2124 on a straight cross pattern (see fig. 7.3).

2.10 **"Sample" clock oscillator** (NICAM units)
Connect a pattern generator and supply a PAL signal with NICAM sound. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2µs/div. Set 2155 so that a symmetrical block wave is visible.

3. Setting on the teletext

Connect pin 22-IC7830 to eart
frequency counter to pin 17-IC
6000 MHz ± 30kHz.
Remove the interconnection.

4. Settings on the PIP mo

Setting conditions
Before making each setting, e
picture with the prescribed sig
screen and that the *unit* has re
temperature (after ≈ 10 min.).

4.1 **Horizontal synchronization**
Do not supply an aerial or gen
Connect pin 28-IC7125 to pin 1
TDA4554 is present (PAL sele
5-IC7755 to earth.
Measure the frequency at pin
3239 set it to 15.625 Hz ± 25
Remove the interconnection.

4.2 **Chroma bandpass filter**
a. **Setting for PIP modules wi**
Connect a signal generator (e.
10 of P17 and set its frequenc
Vpp.
Connect pin 27-IC7125 to 13-I
oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitu
Remove the interconnection.
b. **Setting for PIP modules with**
Connect a signal generator (e.
10 of P17 and set its frequenc
4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin
Set 5118 to maximum amplitu

4.3 **PAL chroma auxiliary oscil**
Connect a pattern generator a
colour bar pattern. Connect pi
(TDA4554) or pin 11-IC7126 (T
Set 2202 so that the colour of
practically still.
Remove the interconnection.

4.4 **NTSC chroma auxiliary osc**
modules with TDA4554
Connect a pattern generator a
M colour bar pattern. Connect
earth. Set 2202 so that the col
is practically still.
Remove the interconnection.

3. Setting on the teletext decoder

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830 and set 5803 to 6000 MHz ± 30kHz.
Remove the interconnection.

4. Settings on the PIP module

Setting conditions
Before making each setting, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

4.1 Horizontal synchronization

Do not supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz ± 25 Hz.
Remove the interconnection.

4.2 Chroma bandpass filter

a. Setting for PIP modules with TDA4554
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitude.
Remove the interconnection.

b. Setting for PIP modules with TDA4510
Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set 5118 to maximum amplitude.

4.3 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.5 Delay line

Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

4.6 SECAM identification for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Set 5190 to minimum DC level.
Remove the interconnection.

4.7 SECAM demodulators for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set 5170, but now measure at pin 3-IC7125.
Remove the interconnection.

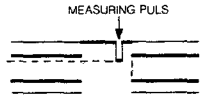


Fig. 7.1

PRS 06772
T-26/034

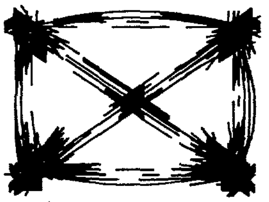


Fig. 7.2

MDA.01468
T28/826

MAIN PANEL

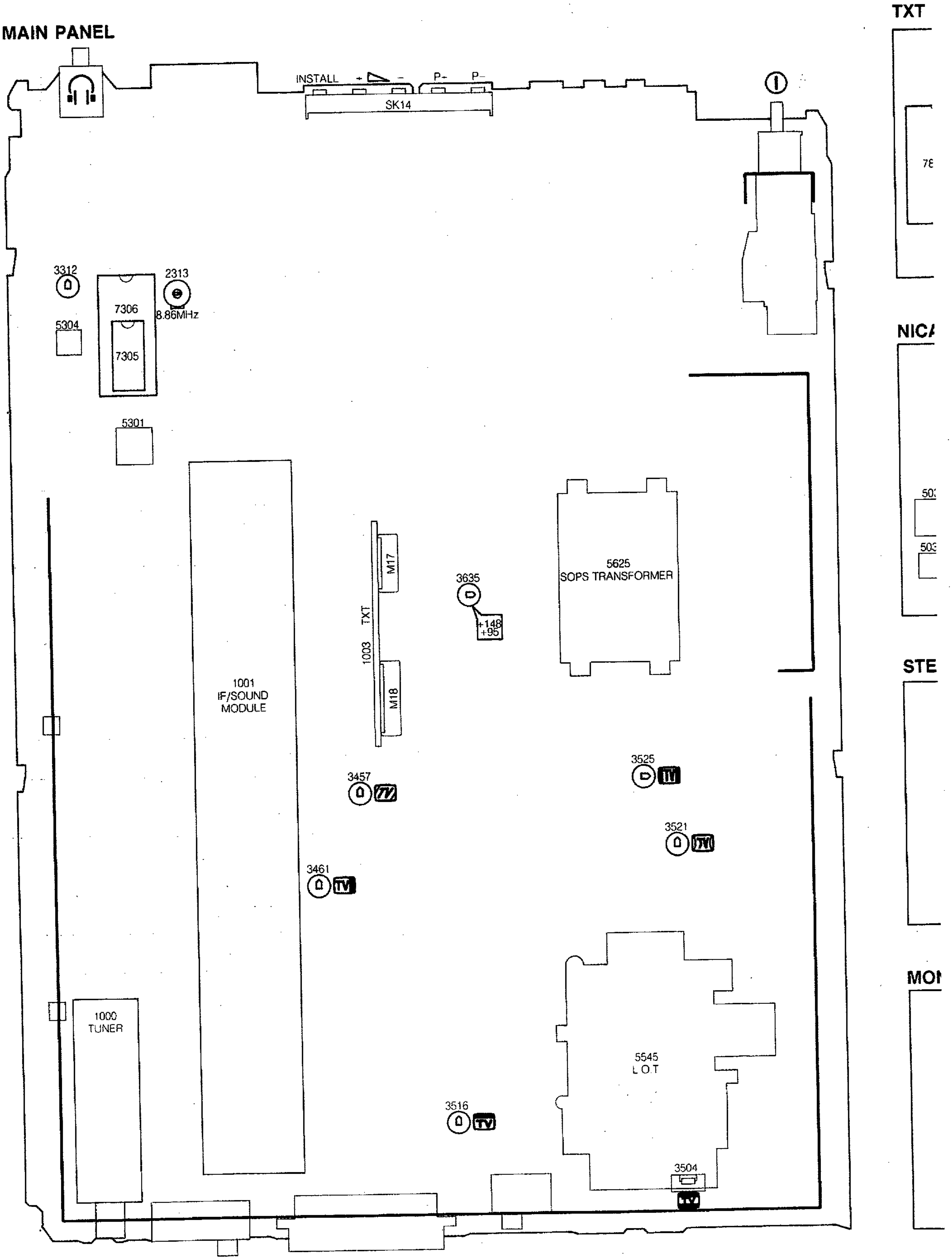
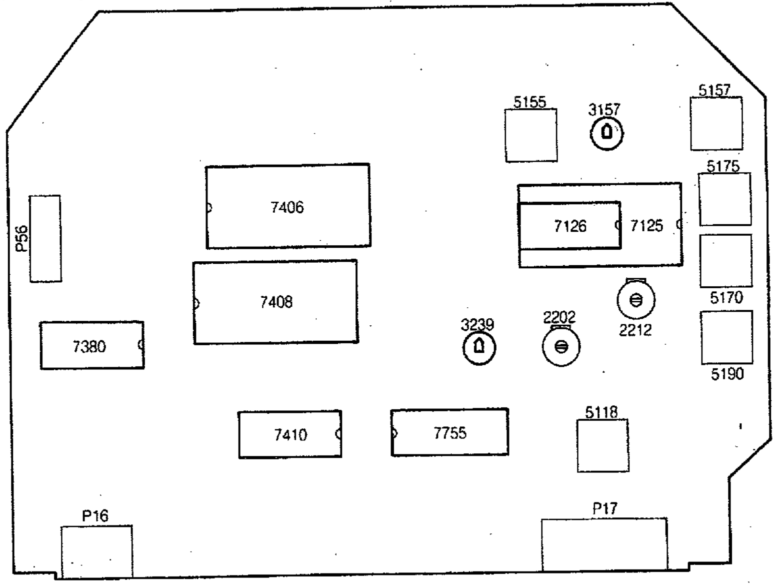
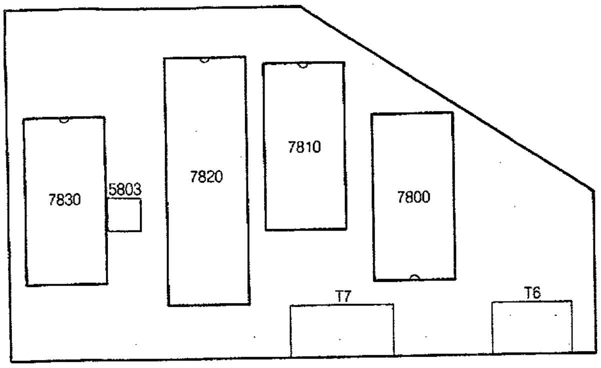

INSTALL
+
−
P+
P−
SK14
3312
2313
7306
8.86MHz
5304
7305
5301
1001
IF/SOUND
MODULE
M17
TXT
1003
M18
3635
+148
+95
5625
SOPS TRANSFORMER
3525
TV
3457
TV
3521
TV
3461
TV
1000
TUNER
3516
TV
5545
L.O.T
3504
TXT
78
NIC
50
50
STE
MO

Fig. 7.3

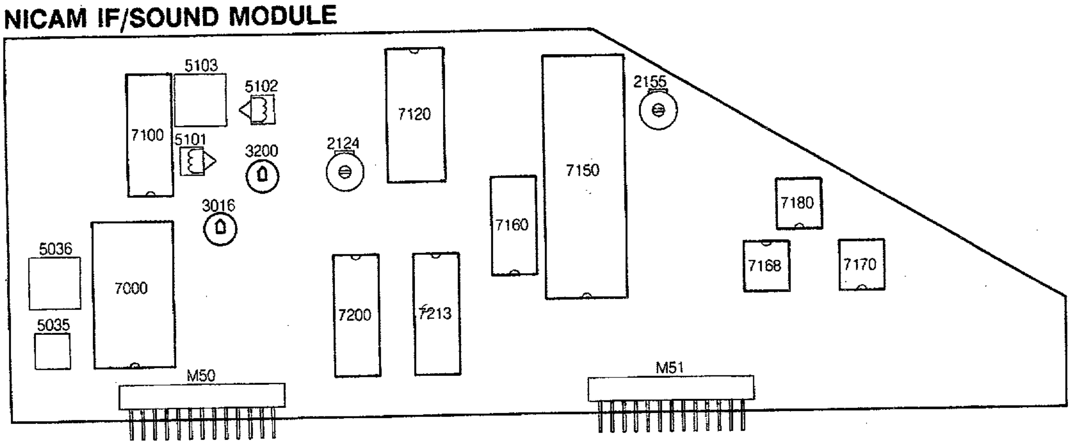
PIP MODULE


5155
3157
5157
5175
7406
P56
7126
7125
7408
5170
3239
2202
2212
7380
5190
5118
7410
7755
P16
P17

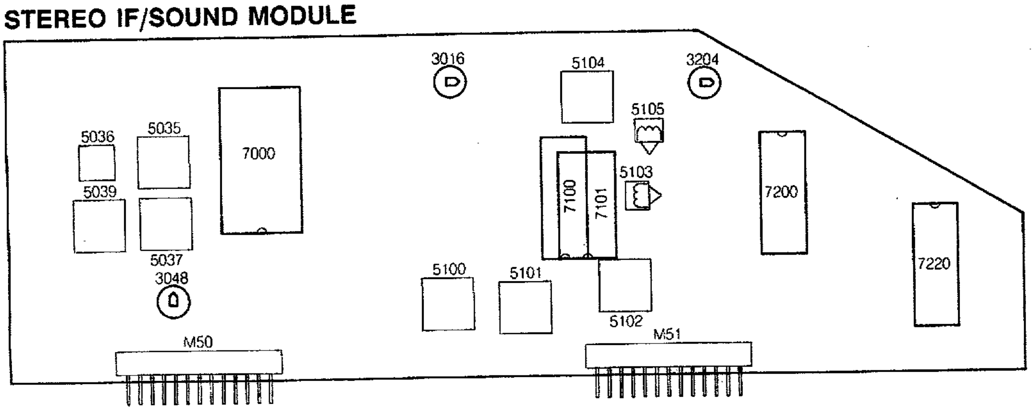
TXT MODULE


7820
7810
7830
5803
7800
T7
T6

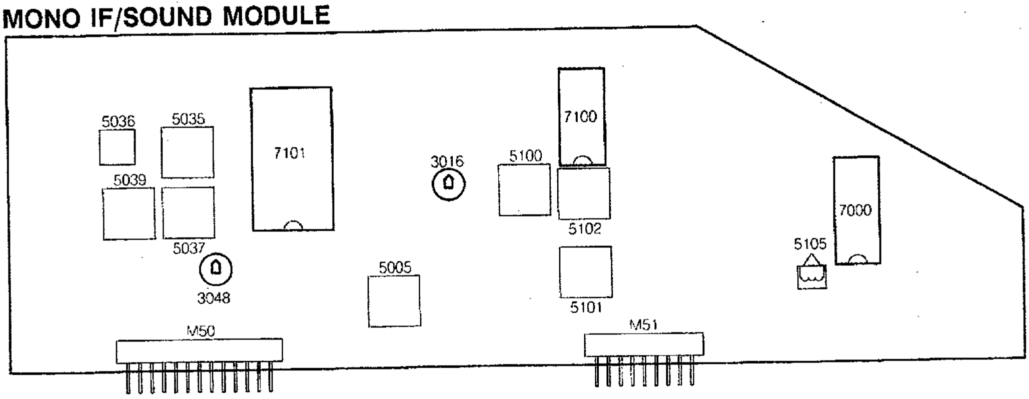
NICAM IF/SOUND MODULE


5103
5102
7100
5101
3200
2124
7120
7150
2155
3016
7160
7180
5036
7000
7168
7170
5035
7200
7213
M50
M51

STEREO IF/SOUND MODULE


3016
5104
3204
5105
5036
5035
7000
5039
7100
7101
5103
7200
5037
3048
7220
5100
5101
5102
M50
M51

MONO IF/SOUND MODULE


5036
5035
7101
7100
5039
3016
5100
7000
5102
5037
5105
3048
5005
5101
M50
M51

MDA 02965
T28/107

Fig. 7.3

Repair tips

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.

b. Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.

c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

a. Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:

b. While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).

c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.

b. When removing the chip, do not use undue force with the pair of tweezers.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. The chip, once removed, must never be reused.

1.3 Attachment of SMDs

a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).

b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.

b. Keep the SMD's body in contact with the printed board when soldering.

c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).

d. Soldering should not be done outside the solder land.

e. Soldering flux (of rosin) may be used, but should not be acidic.

f. After soldering, let the SMD cool down gradually at room temperature.

g. The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

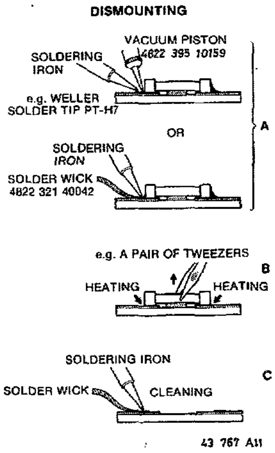

DISMOUNTING
VACUUM PISTON
4822 395 10159
SOLDERING IRON
e.g. WELLER SOLDER TIP PT-H7
OR
SOLDERING IRON
SOLDER WICK
4822 321 40042
A
e.g. A PAIR OF TWEEZERS
B
HEATING
HEATING
SOLDERING IRON
C
SOLDER WICK
CLEANING
43 767 A11

Fig. 8.1

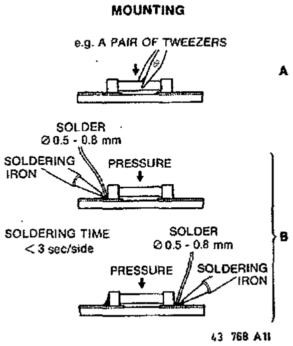

MOUNTING
e.g. A PAIR OF TWEEZERS
A
SOLDER
Ø 0.5 - 0.8 mm
SOLDERING IRON
PRESSURE
SOLDERING TIME
< 3 sec/side
SOLDER
Ø 0.5 - 0.8 mm
PRESSURE
SOLDERING IRON
B
43 768 A11

Fig. 8.2

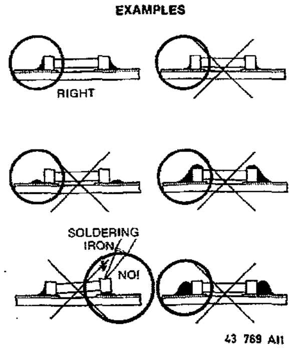

EXAMPLES
RIGHT
SOLDERING IRON
NO!
43 769 A11

Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings. However, all these values should be checked and adjusted, if necessary.
All options should also be set, the programs installed and personal preference set.

3. Table of fault messages

Fault indication	**Description**	**Possible fault**
OSD: ER PIP	I^{2}C fault PIP module	* +5 on PIP module * IC7406
OSD: ER TXT	I^{2}C fault TXT module	* +5 on teletext module * IC7800
OSD: ER NICAM	I^{2}C fault IC7160 (NICAM units)	* +5 on MF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ER 8415	I^{2}C fault IC7200 (stereo and NICAM units)	* +14 on MF/sound module * IC7200 * IC7220
OSD: ER 8425	I^{2}C fault IC7213 (NICAM units) I^{2}C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ER EEPROM	I^{2}C fault IC7710	* ICC7710
OSD: ER TUNER	I^{2}C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ER CHROMA	I^{2}C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in µP	* IC7708
OSD: ER BUS	I^{2}C bus blocked	* C2714, C2715

Directions for use

1. Service default mode

The GR2.1 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- stereo units are tuned to 475.25 MHz
- mono units are tuned to programme 0
- system:
  - * PAL BG, PAL/SECAM BG or PAL I for single system units
  - * SECAM L for multisystem units.

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "S" appears on the screen.
The service default mode can only be switched off by switching the unit to standby. If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
  When operating the install key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
  The service menu is activated by first pressing the ⊿ key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen.
  The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control.
  The values and options set are immediately stored in the EEPROM.

Note 1:
If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.
If the autostore function only does not react, the hotel mode is activated.

Note 2:
If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, the "MULTI SYSTEM" option can be temporarily switched off.

2. Hotel mode

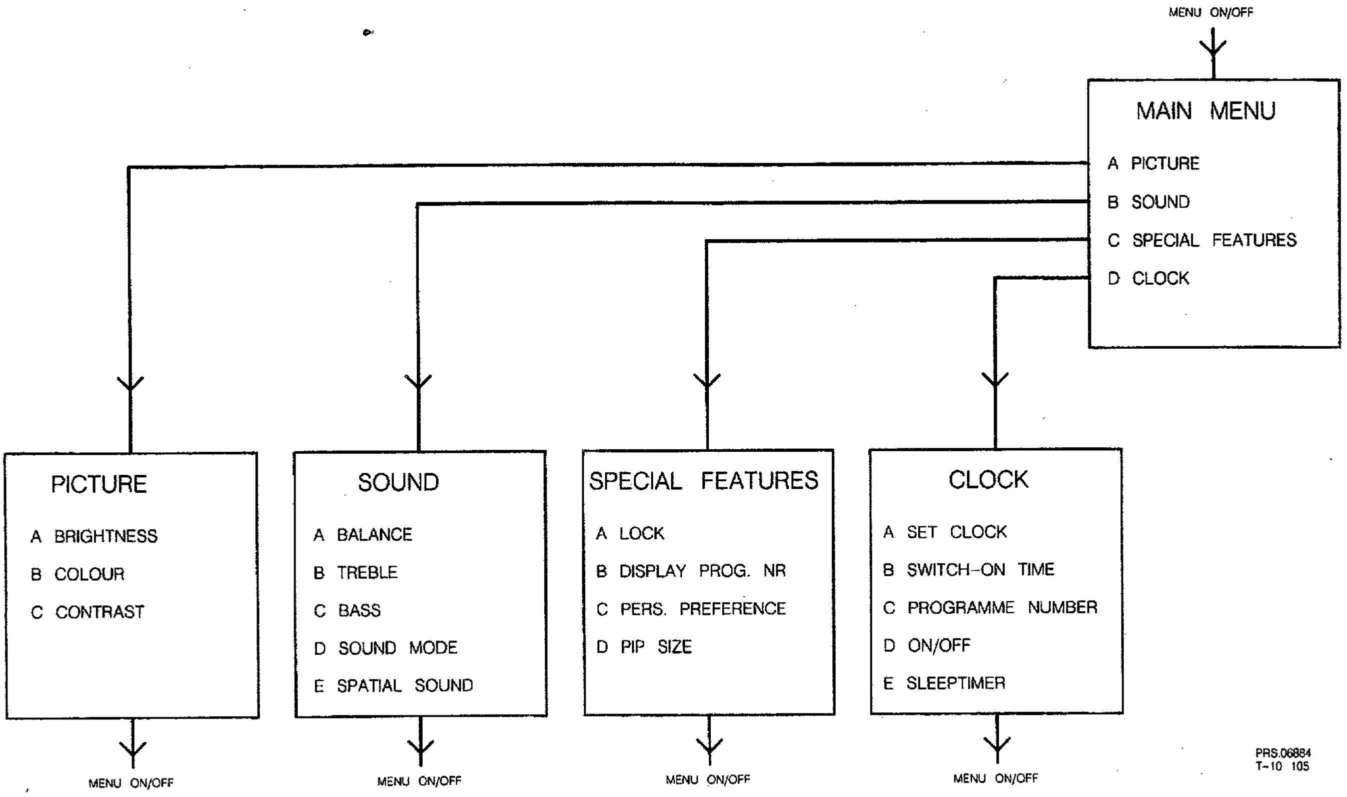
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

2.1 Switching the hotel mode on and off

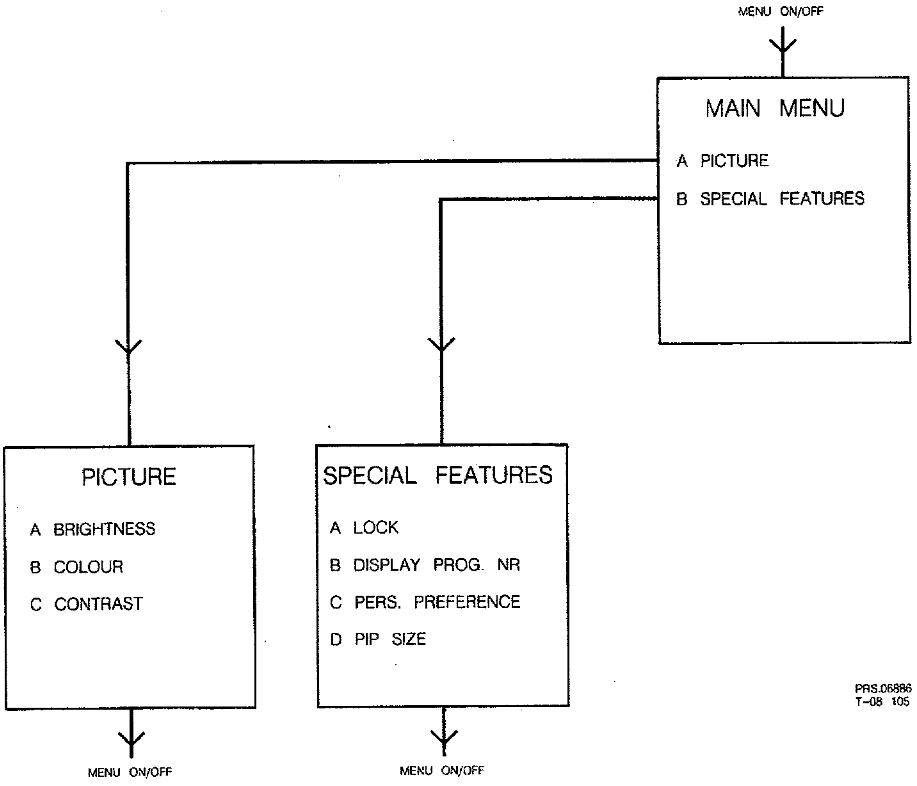
Select programme number 38.
First press ⊿ + and keep this depressed while pressing P −.

Survey of menus

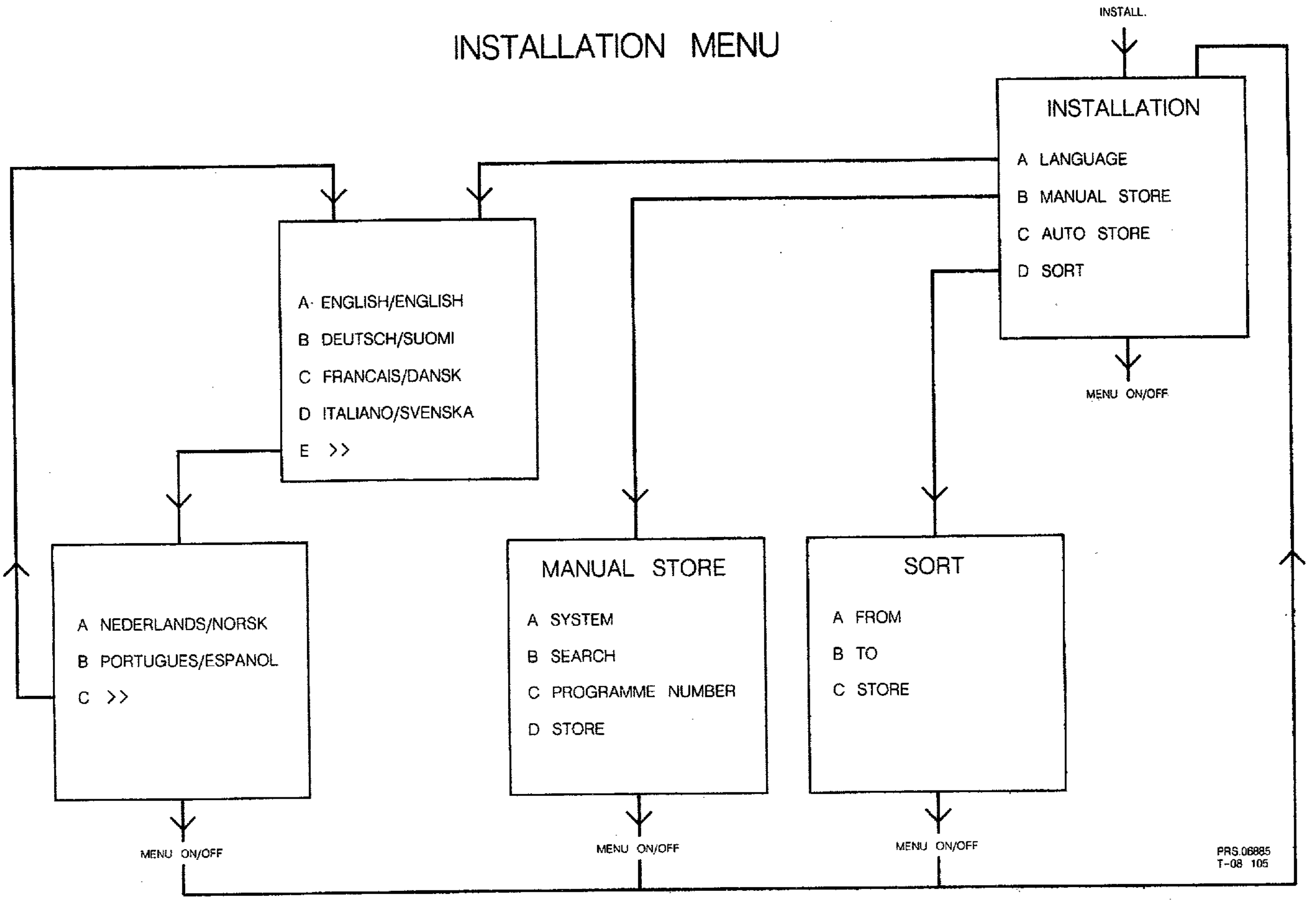
MAIN MENU STEREO


MENU ON/OFF
MAIN MENU
A PICTURE
B SOUND
C SPECIAL FEATURES
D CLOCK
PICTURE
A BRIGHTNESS
B COLOUR
C CONTRAST
SOUND
A BALANCE
B TREBLE
C BASS
D SOUND MODE
E SPATIAL SOUND
SPECIAL FEATURES
A LOCK
B DISPLAY PROG. NR
C PERS. PREFERENCE
D PIP SIZE
CLOCK
A SET CLOCK
B SWITCH-ON TIME
C PROGRAMME NUMBER
D ON/OFF
E SLEEPTIMER
MENU ON/OFF
MENU ON/OFF
MENU ON/OFF
MENU ON/OFF
PRS.06884
T-10 105

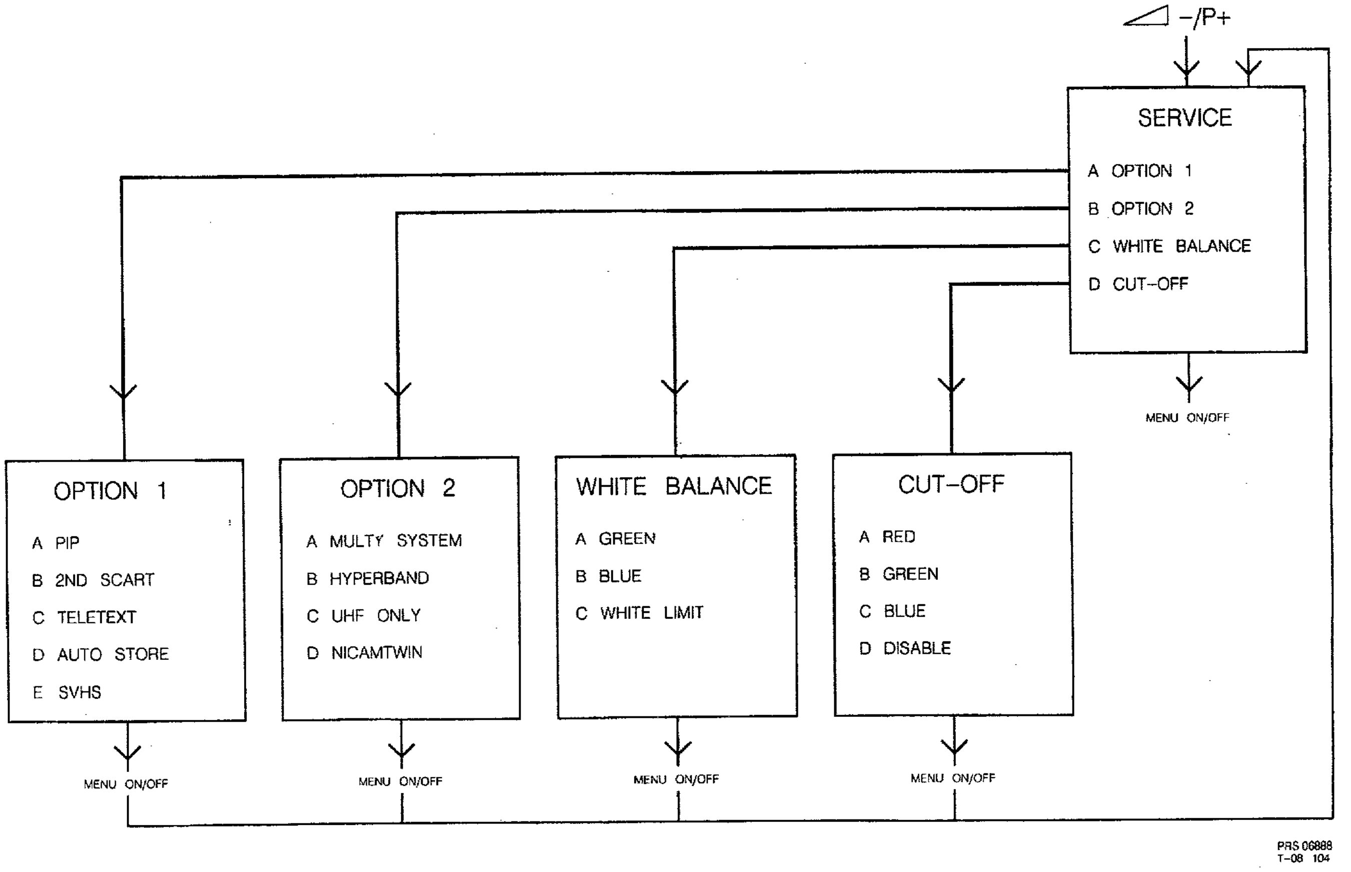
MAIN MENU MONO


MENU ON/OFF
MAIN MENU
A PICTURE
B SPECIAL FEATURES
PICTURE
A BRIGHTNESS
B COLOUR
C CONTRAST
SPECIAL FEATURES
A LOCK
B DISPLAY PROG. NR
C PERS. PREFERENCE
D PIP SIZE
MENU ON/OFF
MENU ON/OFF
PRS.06886
T-08 105

INSTALLATION MENU


INSTALL.
INSTALLATION
A LANGUAGE
B MANUAL STORE
C AUTO STORE
D SORT
MENU ON/OFF
A ENGLISH/ENGLISH
B DEUTSCH/SUOMI
C FRANCAIS/DANSK
D ITALIANO/SVENSKA
E >>
A NEDERLANDS/NORSK
B PORTUGUES/ESPANOL
C >>
MENU ON/OFF
MANUAL STORE
A SYSTEM
B SEARCH
C PROGRAMME NUMBER
D STORE
MENU ON/OFF
SORT
A FROM
B TO
C STORE
MENU ON/OFF
PRS.06885
T-08 105

SERVICE MENU


◺ -/P+
SERVICE
A OPTION 1
B OPTION 2
C WHITE BALANCE
D CUT-OFF
MENU ON/OFF
OPTION 1
A PIP
B 2ND SCART
C TELETEXT
D AUTO STORE
E SVHS
MENU ON/OFF
OPTION 2
A MULTY SYSTEM
B HYPERBAND
C UHF ONLY
D NICAMTWIN
MENU ON/OFF
WHITE BALANCE
A GREEN
B BLUE
C WHITE LIMIT
MENU ON/OFF
CUT-OFF
A RED
B GREEN
C BLUE
D DISABLE
MENU ON/OFF
PRS 06888
T-08 104

Spare parts lists / Stückliste / Liste

Carrier panel

Mechanical parts

4822 404 31174	bracket EURO MOD.
4822 492 70871	spring (wire)
4822 492 70143	spring fix. TS7625
4822 256 91766	LED holder
4822 276 50354	keyboard 5-fold
4822 466 30395	shielding IC7708
4822 256 30274	fuse holder
4822 320 20126	focus cable

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10	4822 265 30389	2p male
11	4822 265 30389	2p male
12	4822 265 30351	5p male
13	4822 265 30378	4p male
14	4822 290 40295	7p male
15	4822 265 40421	6p male
16	4822 264 40207	3p male
17	4822 267 50591	6p male gold
18	4822 264 50148	8p male gold
19	4822 264 40239	3p male
22	4822 267 40666	3p male
23	4822 264 40207	3p male
24	4822 264 40207	3p male
27	4822 265 30351	5p male
28	4822 265 30877	3p male
29	4822 265 41086	9p male,
35	4822 267 20387	SVHS-connector
39	4822 267 31014	headphone socket
47	4822 267 30631	dual cinch connector
49	4822 267 60243	EURO-connector

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4822 290 60626	2p female
4822 290 40285	3p female
4822 267 50824	4p female
4822 265 30275	5p female
4822 267 30546	6p female
4822 265 40252	7p female
4822 267 51084	9p female
4822 267 50637	10p female

various

1000	4822 210 10405	UV917E/IEC
1000	4822 212 23695	U943/IEC
1000	4822 210 50124	UV916E/IEC
1000	4822 210 10366	U944/IEC
1002	4822 526 10405	ferrite bead for D6640,D6641
1003	4822 212 23667	infra red receiver
1004	4822 526 10538	ferrite bead for D6546
1240	4822 071 51602	fuse T1,6A
1242	4822 071 51602	fuse T1,6A
1300	4822 242 70304	crystal 8,867 238 MHz
1534	4822 071 53151	fuse T315mA
1559	4822 071 51002	fuse T1A
1580	4822 071 51602	fuse T1,6A
1600	4822 070 32002	fuse T2A
1702	4822 242 80238	crystal 4,194 MHz
1702	4822 242 80221	crystal 4,194 304 MHz

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2001	4822 124 40195	150µF 20% 16V
2002	5322 122 32838	82nF 10% 63V
2002	4822 122 31797	22nF 10% 63V

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2003	4822 122 31784	4,7nF 10% 50V
2003	4822 122 32893	100nF 80% 50V
2004	4822 122 33205	12pF 10% 63V
2008	4822 122 31765	100pF 5% 50V
2231	4822 124 41525	100µF 20% 25V
2232	4822 122 32863	22nF 80% 50V
2233	4822 122 32863	22nF 80% 50V
2234	4822 122 32863	22nF 80% 50V
2235	4822 122 32863	22nF 80% 50V
2236	4822 122 31784	4,7nF 10% 50V
2237	4822 122 32893	100nF 80% 50V
2238	4822 122 32597	6,8nF 10% 63V
2238	4822 122 31784	4,7nF 10% 50V
2239	4822 122 32893	100nF 80% 50V
2240	4822 124 40214	1000µF 20% 25V
2241	4822 122 32893	100nF 80% 50V
2242	4822 124 40214	1000µF 20% 25V
2243	4822 122 32863	22nF 80% 50V
2245	4822 122 32863	22nF 80% 50V
2246	4822 124 41596	22µF 20% 50V
2246	4822 124 41506	47µF 20% 16V
2248	4822 124 40849	330µF 20% 16V
2249	4822 122 32863	22nF 80% 50V
2250	4822 121 42472	10nF 10% 50V
2251	4822 121 42472	10nF 10% 50V
2252	4822 121 51252	470nF 5% 63V
2254	4822 121 51252	470nF 5% 63V
2255	4822 121 51252	470nF 5% 63V
2256	4822 122 32142	270pF 5% 63V
2257	4822 122 32142	270pF 5% 63V
2260	4822 122 32566	3,9nF 10% 63V
2261	4822 122 32566	3,9nF 10% 63V
2262	4822 122 32142	270pF 5% 63V
2263	4822 122 32142	270pF 5% 63V
2264	4822 121 51252	470nF 5% 63V
2265	4822 121 51252	470nF 5% 63V
2300	4822 122 32482	22pF 5% 63V
2301	4822 122 31773	560pF 5% 50V
2303	4822 122 32142	270pF 5% 63V
2304	4822 122 33498	2,7nF 10% 63V
2304	4822 122 31773	560pF 5% 50V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31965	220pF 5% 63V
2307	4822 122 31965	220pF 5% 63V
2308	4822 122 32442	10nF 50V
2309	4822 122 32442	10nF 50V
2310	4822 122 32442	10nF 50V
2311	4822 122 33496	100nF 10% 63V
2312	4822 122 32442	10nF 50V
2313	4822 125 50045	20pF
2314	5322 121 42661	330nF 5% 63V
2315	4822 122 32504	15pF 5% 50V
2315	4822 122 33205	12pF 10% 63V
2316	4822 122 31825	27pF 10% 50V
2317	4822 122 33466	82pF 2%
2318	4822 122 32875	100pF 5% 50V
2319	4822 122 31825	27pF 10% 50V
2320	4822 122 32444	33pF 5% 50V
2320	4822 122 31839	82pF 10% 50V
2321	4822 122 31797	22nF 10% 63V
2322	4822 122 31797	22nF 10% 63V
2323	4822 122 32542	47nF 10% 63V
2325	4822 122 32542	47nF 10% 63V
2326	4822 051 10008	0Ω 5% 0,25W
2326	4822 122 33496	100nF 10% 63V
2327	4822 122 32442	10nF 50V
2328	4822 121 41856	22nF 5% 250V
2328	4822 121 42408	220nF 5% 63V
2329	4822 121 42408	220nF 5% 63V
2329	4822 121 41856	22nF 5% 250V
2330	4822 122 31765	100pF 5% 50V
2331	4822 122 31765	100pF 5% 50V
2332	5322 122 31842	330pF 5% 63V

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2333	4822 121 42408	220nF 5% 63V
2334	4822 122 31965	220pF 5% 63V
2335	4822 122 31965	220pF 5% 63V
2336	4822 122 31797	22nF 10% 63V
2337	4822 122 31797	22nF 10% 63V
2338	4822 122 31797	22nF 10% 63V
2339	4822 122 33496	100nF 10% 63V
2340	4822 122 31797	22nF 10% 63V
2341	4822 122 31797	22nF 10% 63V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2344	4822 122 33496	100nF 10% 63V
2345	4822 122 31797	22nF 10% 63V
2346	4822 122 31765	100pF 5% 50V
2349	5322 122 31647	1nF 10% 63V
2350	4822 122 31797	22nF 10% 63V
2351	4822 122 31797	22nF 10% 63V
2352	5322 122 31647	1nF 10% 63V
2353	4822 122 33496	100nF 10% 63V
2354	4822 124 40242	1µF 20% 63V
2355	4822 124 40849	330µF 20% 16V
2356	4822 122 31797	22nF 10% 63V
2357	4822 122 31797	22nF 10% 63V
2358	4822 122 31797	22nF 10% 63V
2359	4822 122 31765	100pF 5% 50V
2360	4822 122 33496	100nF 10% 63V
2361	4822 122 33496	100nF 10% 63V
2362	4822 122 33496	100nF 10% 63V
2363	4822 122 31972	39pF 5% 50V
2365	4822 124 40242	1µF 20% 63V
2366	4822 124 41566	3,3µF 20% 50V
2367	4822 124 40435	10µF 20% 50V
2367	4822 124 41596	22µF 20% 50V
2368	4822 122 33205	12pF 10% 63V
2368	4822 122 32504	15pF 5% 50V
2370	4822 121 42408	220nF 5% 63V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31825	27pF 10% 50V
2373	4822 122 31825	27pF 10% 50V
2374	4822 122 31772	47pF 5% 50V
2375	4822 122 31765	100pF 5% 50V
2376	4822 122 31765	100pF 5% 50V
2380	4822 122 31766	120pF 5% 50V
2381	4822 122 31766	120pF 5% 50V
2384	4822 122 31765	100pF 5% 50V
2384	4822 051 10008	0Ω 5% 0,25W
2385	4822 122 31765	100pF 5% 50V
2451	4822 122 32442	10nF 50V
2451	4822 122 33496	100nF 10% 63V
2456	4822 124 40242	1µF 20% 63V
2457	4822 122 33496	100nF 10% 63V
2458	4822 121 42937	2,7nF 1% 250V
2459	4822 122 33496	100nF 10% 63V
2460	5322 122 31647	1nF 10% 63V
2460	4822 122 31784	4,7nF 10% 50V
2460	4822 122 32442	10nF 50V
2461	5322 122 31647	1nF 10% 63V
2464	4822 122 33496	100nF 10% 63V
2465	4822 124 40849	330µF 20% 16V
2466	4822 124 41577	4,7µF 20% 50V
2467	4822 122 33496	100nF 10% 63V
2468	4822 124 40242	1µF 20% 63V
2469	4822 124 41596	22µF 20% 50V
2470	4822 122 31772	47pF 5% 50V
2471	5322 121 42661	330nF 5% 63V
2473	5322 121 42661	330nF 5% 63V
2475	4822 122 31797	22nF 10% 63V
2500	4822 122 31965	220pF 5% 63V
2500	4822 122 31727	470pF 5% 63V
2502	4822 124 41596	22µF 20% 50V
2505	4822 122 32542	47nF 10% 63V
2506	4822 124 41747	680µF 20%
2506	4822 124 41334	470µF 20% 35V

Carrier panel (continued)

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2507	4822 122 31797	22nF 10% 63V
2509	4822 124 41576	2,2µF 20% 50V
2520	5322 124 41299	68µF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2524	4822 124 21208	4,7µF 20% 50V
2524	4822 124 42167	4,7µF 20% 50V
2526	4822 121 42472	10nF 10% 50V
2526	4822 122 31759	18nF 10%
2528	5322 121 42025	0,22µF 10% 250V
2531	4822 121 43396	120nF 5% 63V
2531	4822 121 42408	220nF 5% 63V
2532	4822 124 40242	1µF 20% 63V
2532	4822 124 41577	4,7µF 20% 50V
2533	4822 124 40242	1µF 20% 63V
2538	4822 121 51256	39nF 10% 50V
2539	4822 124 41525	100µF 20% 25V
2545	4822 126 10202	1,5nF 10% 2kV
2545	4822 122 33707	1,2nF 10% 2kV
2546	5322 121 42523	8,2nF 5% 2kV
2546	5322 121 41603	10nF 5% 2kV
2546	4822 121 43065	7,5nF 5% 2kV
2547	4822 121 40488	22nF 10% 400V
2547	5322 121 44151	33nF 10% 400V
2549	4822 121 42073	390 nF 10% 400V
2549	4822 121 42074	470 nF 10% 400V
2550	4822 121 51527	390nF 5% 250V
2550	4822 121 43148	470nF 10% 2000V
2551	4822 124 41831	1µF 20% 160V
2559	4822 124 41525	100µF 20% 25V
2560	4822 121 51408	33nF 10% 250V
2563	4822 122 10175	2,2nF 10% 50V
2570	4822 124 40764	22µF 100 V
2574	4822 122 10175	2,2nF 10% 50V
2580	4822 124 40214	1000µF 20% 25V
2585	4822 124 40435	10µF 20% 50V
2588	4822 122 31644	2,2nF 10% 63V
2590	5322 121 42498	680nF 5% 63V
2590	5322 121 42498	680nF 5% 63V
2600	4822 124 41531	470nF 10% 250VAC
2605	4822 124 23492	220µF 50% 385V
2605	4822 124 42104	68µF 20% 385V
2607	4822 122 33922	1nF 20% 400V
2611	5322 124 41299	68µF 20% 25V
2617	4822 121 43047	1µF 10% 63V
2620	5322 121 42465	68nF 5% 63V
2625	4822 122 40593	1nF 10% 1kV
2626	4822 122 40594	470pF 10% 1kV
2629	4822 122 31784	4,7nF 10% 50V
2630	4822 124 23418	47µF 200V
2630	4822 124 22349	100µF 160V
2631	4822 124 22349	100µF 160V
2631	4822 124 23418	47µF 200V
2632	4822 126 11382	1nF 10% 1kV
2636	4822 122 31644	2,2nF 10% 63V
2640	4822 124 40214	1000µF 20% 25V
2641	4822 124 40214	1000µF 20% 25V
2646	4822 124 42153	15µF 20% 50V
2649	4822 122 33496	100nF 10% 63V
2650	4822 122 33496	100nF 10% 63V
2652	5322 122 32331	1nF 10% 100V
2653	5322 122 32331	1nF 10% 100V
2658	5322 122 32838	82nF 10% 63V
2660	4822 124 40201	1000µF 20% 16V
2661	4822 124 41506	47µF 20% 16V
2662	4822 122 30107	270pF 2% 100V
2662	5322 122 32056	220pF 2% 100V
2663	5322 122 32344	82pF 2% 100V
2663	4822 122 31081	100pF 2% 100V
2664	4822 124 41576	2,2µF 20% 50V
2670	4822 122 31766	120pF 5% 50V
2671	4822 121 42408	220nF 5% 63V
2675	5322 124 41468	1000µF 20% 40V

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2675	4822 124 21215	680µF 20% 40V
2676	5322 122 32331	1nF 10% 100V
2701	4822 122 31765	100pF 5% 50V
2702	4822 122 32442	10nF 50V
2703	4822 121 51252	470nF 5% 63V
2704	4822 122 32542	47nF 10% 63V
2705	4822 122 31766	120pF 5% 50V
2706	5322 124 41299	68µF 20% 25V
2707	4822 124 40242	1µF 20% 63V
2708	4822 122 31766	120pF 5% 50V
2709	4822 122 32083	8,2pF 5% 50V
2710	4822 122 32083	8,2pF 5% 50V
2711	4822 122 31825	27pF 10% 50V
2712	4822 122 31825	27pF 10% 50V
2713	4822 124 41525	100µF 20% 25V
2714	4822 122 31766	120pF 5% 50V
2715	4822 122 31766	120pF 5% 50V
2716	4822 122 33496	100nF 10% 63V
2717	4822 122 31644	2,2nF 10% 63V
2718	4822 122 33496	100nF 10% 63V
2719	4822 124 40242	1µF 20% 63V
2719	5322 121 42386	100nF 5% 63V
2721	4822 122 32442	10nF 50V
2722	4822 121 42007	100nF 10% 100V
2722	4822 122 32893	100nF 80% 50V
2781	4822 122 33496	100nF 10% 63V
2800	4822 124 41506	47µF 20% 16V
2805	4822 122 31772	47pF 5% 50V
2810	4822 122 31784	4,7nF 10% 50V
2875	4822 122 32893	100nF 80% 50V

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3001	4822 052 10279	27Ω 5% 0,33W
3002	4822 051 10223	22k 2% 0,25W
3003	4822 051 20222	2k2 5% 0,1W
3004	4822 051 10472	4k7 2% 0,25W
3005	4822 051 10102	1k 2% 0,25W
3006	4822 051 10472	4k7 2% 0,25W
3007	4822 051 10102	1k 2% 0,25W
3008	4822 051 10472	4k7 2% 0,25W
3009	4822 051 10102	1k 2% 0,25W
3010	4822 051 10102	1k 2% 0,25W
3218	4822 116 52228	680Ω 5% 0,5W
3219	4822 116 52228	680Ω 5% 0,5W
3220	4822 051 10392	3k9 2% 0,25W
3221	4822 116 52204	1k 5% 0,5W
3222	4822 116 52234	100k 5% 0,5W
3224	4822 116 52256	2k2 5% 0,5W
3225	4822 051 10272	2k7 2% 0,25W
3226	4822 051 10333	33k 2% 0,25W
3227	4822 051 10333	33k 2% 0,25W
3228	4822 051 10151	150Ω 2% 0,25W
3229	4822 051 10562	5k6 2% 0,25W
3230	4822 116 52257	22k 5% 0,5W
3231	4822 051 10472	4k7 2% 0,25W
3232	4822 051 10101	100Ω 2% 0,25W
3232	4822 051 10008	0Ω 5% 0,25W
3233	4822 051 10103	10k 2% 0,25W
3234	4822 051 10223	22k 2% 0,25W
3235	4822 051 10223	22k 2% 0,25W
3236	4822 051 10562	5k6 2% 0,25W
3236	4822 051 10122	1k2 2% 0,25W
3237	4822 051 10562	5k6 2% 0,25W
3237	4822 051 10122	1k2 2% 0,25W
3238	4822 051 10122	1k2 2% 0,25W
3239	4822 116 52207	1k2 5% 0,5W
3240	4822 052 10828	8Ω2 5% 0,33W
3241	4822 052 10828	8Ω2 5% 0,33W
3242	4822 051 10333	33k 2% 0,25W
3243	4822 051 10333	33k 2% 0,25W
3244	4822 051 10103	10k 2% 0,25W

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3245	4822 051 10103	10k 2% 0,25W
3246	4822 050 23301	330Ω 1% 0,6W
3247	4822 116 52175	100Ω 5% 0,5W
3248	4822 050 23301	330Ω 1% 0,6W
3249	4822 116 52193	39Ω 5% 0,5W
3249	4822 116 52175	100Ω 5% 0,5W
3250	4822 116 52204	1k 5% 0,5W
3251	4822 116 52204	1k 5% 0,5W
3253	4822 116 52211	150Ω 5% 0,5W
3254	4822 116 52211	150Ω 5% 0,5W
3255	4822 116 52204	1k 5% 0,5W
3256	4822 116 52204	1k 5% 0,5W
3257	4822 051 10334	330k 2% 0,25W
3258	4822 051 10334	330k 2% 0,25W
3259	4822 051 10334	330k 2% 0,25W
3260	4822 051 10334	330k 2% 0,25W
3261	4822 116 80747	75Ω 5% 0,125W
3262	4822 116 80747	75Ω 5% 0,125W
3263	4822 051 10008	0Ω 5% 0,25W
3263	4822 051 10562	5k6 2% 0,25W
3264	4822 051 10008	0Ω 5% 0,25W
3264	4822 051 10562	5k6 2% 0,25W
3265	4822 050 21008	1Ω 1% 0,6W
3266	4822 050 21008	1Ω 1% 0,6W
3300	4822 051 10562	5k6 2% 0,25W
3301	4822 051 10272	2k7 2% 0,25W
3302	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10332	3k3 2% 0,25W
3303	4822 051 10122	1k2 2% 0,25W
3304	4822 051 10182	1k8 2% 0,25W
3305	4822 051 10431	430Ω 2% 0,25W
3306	4822 051 10103	10k 2% 0,25W
3307	4822 051 10681	680Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10331	330Ω 2% 0,25W
3310	4822 116 52286	5k1 5% 0,5W
3311	4822 051 10391	390Ω 2% 0,25W
3312	4822 100 11677	470Ω 30% lin 0,2W
3313	4822 051 10103	10k 2% 0,25W
3313	4822 051 10332	3k3 2% 0,25W
3314	4822 051 10103	10k 2% 0,25W
3315	4822 051 10911	910Ω 2% 0,25W
3316	4822 051 10105	1M 5% 0,25W
3317	4822 051 20222	2k2 5% 0,1W
3318	4822 051 10472	4k7 2% 0,25W
3323	4822 116 52272	330k 5% 0,5W
3325	4822 051 10271	270Ω 2% 0,25W
3326	4822 051 10271	270Ω 2% 0,25W
3327	4822 050 11202	1k2 1% 0,4W
3328	4822 051 10473	47k 2% 0,25W
3330	4822 051 10109	10Ω 2% 0,25W
3331	4822 051 10109	10Ω 2% 0,25W
3332	4822 050 23901	390Ω 1% 0,6W
3334	4822 050 21809	18Ω 1% 0,6W
3335	4822 116 52184	18Ω 5% 0,5W
3336	4822 052 10189	18Ω 5% 0,33W
3336	4822 052 10279	27Ω 5% 0,33W
3337	4822 052 10189	18Ω 5% 0,33W
3337	4822 052 10279	27Ω 5% 0,33W
3338	4822 116 52204	1k 5% 0,5W
3339	4822 051 10152	1k5 2% 0,25W
3340	4822 116 52204	1k 5% 0,5W
3341	4822 051 10103	10k 2% 0,25W
3342	4822 051 10102	1k 2% 0,25W
3343	4822 051 10104	100k 2% 0,25W
3344	4822 051 10182	1k8 2% 0,25W
3347	4822 116 52219	330Ω 5% 0,5W
3348	4822 116 52219	330Ω 5% 0,5W
3349	4822 116 52219	330Ω 5% 0,5W
3350	4822 116 52204	1k 5% 0,5W
3351	4822 116 52263	2k7 5% 0,5W
3352	4822 116 52263	2k7 5% 0,5W
3353	4822 116 52263	2k7 5% 0,5W

Carrier panel (continued)

3354	4822 051 10221	220Ω 2% 0,25W
3357	4822 051 10102	1k 2% 0,25W
3358	4822 051 10331	330Ω 2% 0,25W
3359	4822 051 10331	330Ω 2% 0,25W
3360	4822 051 10102	1k 2% 0,25W
3361	4822 051 10102	1k 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W
3365	4822 116 52245	150k 5% 0,5W
3365	4822 116 52301	75k 5% 0,5W
3366	4822 051 20183	18k 5% 0,1W
3367	4822 116 52175	100Ω 5% 0,5W
3368	4822 116 52175	100Ω 5% 0,5W
3369	4822 116 52175	100Ω 5% 0,5W
3370	4822 051 10332	3k3 2% 0,25W
3371	4822 051 10332	3k3 2% 0,25W
3372	4822 051 10472	4k7 2% 0,25W
3373	4822 051 10102	1k 2% 0,25W
3374	4822 050 26803	68k 1% 0,6W
3375	4822 051 10331	330Ω 2% 0,25W
3376	4822 051 10331	330Ω 2% 0,25W
3380	4822 051 10101	100Ω 2% 0,25W
3381	4822 051 10101	100Ω 2% 0,25W
3394	4822 051 10104	100k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W
3451	4822 116 52175	100Ω 5% 0,5W
3452	4822 116 52175	100Ω 5% 0,5W
3455	4822 051 10102	1k 2% 0,25W
3456	4822 051 10682	6k8 2% 0,25W
3457	4822 100 11676	10k 30% lin 0,2W
3458	4822 051 10303	30k 2% 0,25W
3459	4822 051 10823	82k 2% 0,25W
3460	4822 051 10333	33k 2% 0,25W
3461	4822 100 11682	47k 30% lin 0,2W
3463	4822 051 20183	18k 5% 0,1W
3464	4822 051 10123	12k 2% 0,25W
3465	4822 051 10394	390k 2% 0,25W
3466	4822 051 10152	1k5 2% 0,25W
3467	4822 116 80692	2M2 5% 0,2W
3467	4822 050 21205	1M2 1% 0,6W
3468	4822 051 10682	6k8 2% 0,25W
3469	4822 051 10229	22Ω 2% 0,25W
3470	4822 116 52269	3k3 5% 0,5W
3471	4822 050 19109	91Ω 1% 0,4W
3473	4822 116 52265	270k 5% 0,5W
3474	4822 051 10392	3k9 2% 0,25W
3483	4822 051 10479	47Ω 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W
3501	4822 051 10759	75Ω 2% 0,25W
3501	4822 051 10101	100Ω 2% 0,25W
3502	4822 050 28201	820Ω 1% 0,6W
3503	4822 052 10108	1Ω 5% 0,33W
3504	4822 100 11684	100Ω 10% 0,1W
3505	4822 051 10471	470Ω 2% 0,25W
3506	4822 116 52245	150k 5% 0,5W
3507	4822 116 52233	10k 5% 0,5W
3507	4822 116 52238	12k 5% 0,5W
3508	4822 051 10228	2Ω2 5% 0,25W
3509	4822 051 10228	2Ω2 5% 0,25W
3510	4822 051 10228	2Ω2 5% 0,25W
3511	4822 051 10228	2Ω2 5% 0,25W
3512	4822 051 10109	10Ω 2% 0,25W
3513	4822 050 25601	560Ω 1% 0,6W
3514	4822 051 10392	3k9 2% 0,25W
3515	4822 051 10228	2Ω2 5% 0,25W
3516	4822 100 11678	22k 30% lin 0,2W
3517	4822 051 10228	2Ω2 5% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W
3519	4822 051 10228	2Ω2 5% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W
3521	4822 100 11679	4,7k 30% lin 0,2W
3522	4822 051 10152	1k5 2% 0,25W
3523	4822 051 10228	2Ω2 5% 0,25W
3524	4822 051 10683	68k 2% 0,25W
3525	4822 100 11678	22k 30% lin 0,2W
3525	4822 100 11676	10k 30% lin 0,2W
3526	4822 051 10823	82k 2% 0,25W
3526	4822 051 10104	100k 2% 0,25W
3527	4822 051 10125	1M2 5% 0,25W
3527	4822 051 10333	33k 2% 0,25W
3528	4822 051 20222	2k2 5% 0,1W
3528	4822 051 10681	680Ω 2% 0,25W
3529	4822 051 10228	2Ω2 5% 0,25W
3530	4822 051 10102	1k 2% 0,25W
3530	4822 051 10008	0Ω 5% 0,25W
3531	4822 051 10104	100k 2% 0,25W
3531	4822 051 10008	0Ω 5% 0,25W
3532	4822 051 10103	10k 2% 0,25W
3532	4822 051 10153	15k 2% 0,25W
3533	4822 051 10822	8k2 2% 0,25W
3534	4822 052 10828	8Ω2 5% 0,33W
3535	4822 116 52231	820Ω 5% 0,5W
3535	4822 116 52243	1k5 5% 0,5W
3536	4822 051 10822	8k2 2% 0,25W
3538	4822 116 52251	18k 5% 0,5W
3539	4822 053 20684	680k 5% 0,25W
3539	4822 053 20434	430k 5% 0,25W
3540	4822 051 10399	39Ω 2% 0,25W
3542	4822 050 28201	820Ω 1% 0,6W
3543	4822 051 10101	100Ω 2% 0,25W
3545	4822 116 52256	2k2 5% 0,5W
3545	4822 111 70178	120Ω 5% 5W
3545	4822 116 82999	330Ω 5% 5W
3546	4822 050 15608	5Ω6 1% 0,4W
3549	4822 116 52251	18k 5% 0,5W
3550	4822 052 10153	15k 5% 0,33W
3550	4822 116 52251	18k 5% 0,5W
3551	4822 050 25601	560Ω 1% 0,6W
3552	4822 050 25601	560Ω 1% 0,6W
3553	4822 052 10561	560Ω 5% 0,33W
3560	4822 116 52254	20k 5% 0,5W
3560	4822 116 52247	16k 5% 0,5W
3560	4822 051 10333	33k 2% 0,25W
3570	4822 052 10688	6Ω8 5 0,33W
3582	4822 050 25601	560Ω 1% 0,6W
3585	4822 052 10159	15Ω 5% 0,33W
3588	4822 052 10561	560Ω 5% 0,33W
3589	4822 050 24701	470Ω 1% 0,6W
3590	4822 116 52234	100k 5% 0,5W
3591	4822 051 10474	470k 2% 0,25W
3592	4822 051 10681	680Ω 2% 0,25W
3603	4822 053 21915	9M1 5% 0,5W
3605	4822 052 10102	1k 5% 0,33W
3606	4822 052 10102	1k 5% 0,33W
3610	4822 052 10159	15Ω 5% 0,33W
3610	4822 052 10688	6Ω8 5 0,33W
3617	4822 116 52213	180Ω 5% 0,5W
3619	4822 116 52182	15Ω 5% 0,5W
3620	4822 053 12121	120Ω 5% 3W
3622	4822 053 11479	47Ω 5% 2W
3624	4822 116 52272	330k 5% 0,5W
3625	4822 116 52292	560k 5% 0,5W
3626	4822 053 12361	360Ω 5% 3W
3626	4822 113 80565	180Ω 5% 5W
3627	4822 053 12361	360Ω 5% 3W
3628	4822 051 10334	330k 2% 0,25W
3629	4822 051 10682	6k8 2% 0,25W
3631	4822 050 22204	220k 1% 0,6W
3631	4822 050 21204	120k 1% 0,6W
3634	4822 116 52269	3k3 5% 0,5W
3634	4822 116 52263	2k7 5% 0,5W
3635	4822 100 11681	1k 30% 0,1W
3636	4822 051 10224	220k 2% 0,25W
3637	4822 051 10101	100Ω 2% 0,25W
3647	4822 050 23603	36k 1% 0,6W
3647	4822 050 23303	33k 1% 0,6W
3648	4822 051 10273	27k 2% 0,25W
3649	4822 050 23309	33Ω 1% 0,6W
3658	4822 052 10688	6Ω8 5 0,33W
3659	4822 051 10181	180Ω 2% 0,25W
3660	4822 051 10101	100Ω 2% 0,25W
3661	4822 051 10361	360Ω 2% 0,25W
3662	4822 051 10221	220Ω 2% 0,25W
3663	4822 051 10472	4k7 2% 0,25W
3664	4822 051 10272	2k7 2% 0,25W
3665	4822 051 10103	10k 2% 0,25W
3666	4822 051 10102	1k 2% 0,25W
3667	4822 051 10361	360Ω 2% 0,25W
3668	4822 051 10102	1k 2% 0,25W
3669	4822 051 10102	1k 2% 0,25W
3670	4822 051 10303	30k 2% 0,25W
3671	4822 116 52204	1k 5% 0,5W
3672	4822 051 10103	10k 2% 0,25W
3673	4822 051 10472	4k7 2% 0,25W
3674	4822 051 10112	1k1 2% 0,25W
3675	4822 116 52239	120k 5% 0,5W
3676	4822 051 10103	10k 2% 0,25W
3701	4822 051 10273	27k 2% 0,25W
3702	4822 051 10153	15k 2% 0,25W
3704	4822 051 10103	10k 2% 0,25W
3705	4822 051 10102	1k 2% 0,25W
3706	4822 051 10472	4k7 2% 0,25W
3707	4822 051 10223	22k 2% 0,25W
3708	4822 051 10334	330k 2% 0,25W
3710	4822 051 10008	0Ω 5% 0,25W
3710	4822 051 10243	24k 2% 0,25W
3711	4822 116 52244	15k 5% 0,5W
3711	4822 116 80176	1Ω 5% 0,5W
3712	4822 051 10223	22k 2% 0,25W
3712	4822 051 10008	0Ω 5% 0,25W
3713	4822 051 10223	22k 2% 0,25W
3713	4822 051 10008	0Ω 5% 0,25W
3714	4822 051 10155	1M5 5% 0,25W
3716	4822 051 10103	10k 2% 0,25W
3717	4822 051 10103	10k 2% 0,25W
3718	4822 116 52215	220Ω 5% 0,5W
3719	4822 116 52215	220Ω 5% 0,5W
3720	4822 116 52215	220Ω 5% 0,5W
3721	4822 051 10103	10k 2% 0,25W
3722	4822 051 10103	10k 2% 0,25W
3723	4822 051 10103	10k 2% 0,25W
3724	4822 051 10103	10k 2% 0,25W
3725	4822 051 10103	10k 2% 0,25W
3726	4822 051 10103	10k 2% 0,25W
3727	4822 116 52175	100Ω 5% 0,5W
3728	4822 116 52175	100Ω 5% 0,5W
3729	4822 051 10911	910Ω 2% 0,25W
3730	4822 051 10221	220Ω 2% 0,25W
3731	4822 051 10103	10k 2% 0,25W
3732	4822 053 11103	10k 5% 2W
3732	4822 053 11332	3k3 5% 2W
3733	4822 116 52283	4k7 5% 0,5W
3733	4822 050 23902	3k9 1% 0,6W
3734	4822 116 52283	4k7 5% 0,5W
3734	4822 050 23902	3k9 1% 0,6W
3735	4822 051 10104	100k 2% 0,25W
3736	4822 116 52175	100Ω 5% 0,5W
3737	4822 116 52284	47k 5% 0,5W
3737	4822 116 52204	1k 5% 0,5W
3741	4822 051 10123	12k 2% 0,25W
3742	4822 051 10332	3k3 2% 0,25W
3743	4822 051 10472	4k7 2% 0,25W
3747	4822 051 10273	27k 2% 0,25W
3748	4822 051 10273	27k 2% 0,25W
3749	4822 051 10273	27k 2% 0,25W
3750	4822 051 10273	27k 2% 0,25W
3751	4822 051 10153	15k 2% 0,25W
3752	4822 051 10153	15k 2% 0,25W
3753	4822 051 10153	15k 2% 0,25W

Carrier panel (continued)

3754	4822 051 10153	15k 2% 0,25W
3755	4822 051 10008	0Ω 5% 0,25W
3755	4822 051 10101	100Ω 2% 0,25W
3756	4822 051 10101	100Ω 2% 0,25W
3757	4822 051 20222	2k2 5% 0,1W
3758	4822 051 10392	3k9 2% 0,25W
3759	4822 116 52175	100Ω 5% 0,5W
3768	4822 116 52235	1M 5% 0,5W
3770	4822 051 10473	47k 2% 0,25W
3771	4822 116 52251	18k 5% 0,5W
3772	4822 051 10392	3k9 2% 0,25W
3774	4822 051 10103	10k 2% 0,25W
3775	4822 051 10101	100Ω 2% 0,25W
3776	4822 051 10562	5k6 2% 0,25W
3777	4822 116 52264	27k 5% 0,5W
3778	4822 051 10563	56k 2% 0,25W
3779	4822 116 52233	10k 5% 0,5W
3780	4822 051 10103	10k 2% 0,25W
3781	4822 051 10472	4k7 2% 0,25W
3850	4822 116 52189	30Ω 5% 0,5W
3851	4822 116 80747	75Ω 5% 0,125W
3852	4822 116 80747	75Ω 5% 0,125W
3853	4822 116 80747	75Ω 5% 0,125W
3854	4822 116 80747	75Ω 5% 0,125W
3855	4822 116 52201	75Ω 5% 0,5W
3856	4822 051 10101	100Ω 2% 0,25W
3857	4822 051 10331	330Ω 2% 0,25W
3858	4822 051 10331	330Ω 2% 0,25W
3859	4822 051 10331	330Ω 2% 0,25W
3860	4822 116 80176	1Ω 5% 0,5W
3861	4822 051 10562	5k6 2% 0,25W
3866	4822 051 10103	10k 2% 0,25W
3867	4822 116 80747	75Ω 5% 0,125W
3868	4822 116 80747	75Ω 5% 0,125W
3869	4822 116 52175	100Ω 5% 0,5W
3871	4822 116 52175	100Ω 5% 0,5W
3874	4822 050 21008	1Ω 1% 0,6W
3875	4822 051 10102	1k 2% 0,25W
3880	4822 116 52204	1k 5% 0,5W
3881	4822 116 52224	470Ω 5% 0,5W
3882	4822 116 52224	470Ω 5% 0,5W
3883	4822 051 10104	100k 2% 0,25W
3884	4822 050 21004	100k 1% 0,6W
3885	4822 051 10223	22k 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52289	5k6 5% 0,5W
3888	4822 116 52207	1k2 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W
4221	4822 051 10008	0Ω 5% 0,25W
4222	4822 051 10008	0Ω 5% 0,25W
4223	4822 051 10008	0Ω 5% 0,25W
4224	4822 051 10008	0Ω 5% 0,25W
4233	4822 051 10008	0Ω 5% 0,25W
4237	4822 051 10008	0Ω 5% 0,25W
4239	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4301	4822 051 10008	0Ω 5% 0,25W
4302	4822 051 10008	0Ω 5% 0,25W
4303	4822 051 10008	0Ω 5% 0,25W
4304	4822 051 10008	0Ω 5% 0,25W
4305	4822 051 10008	0Ω 5% 0,25W
4306	4822 051 10008	0Ω 5% 0,25W
4307	4822 051 10008	0Ω 5% 0,25W
4308	4822 051 10008	0Ω 5% 0,25W
4310	4822 051 10008	0Ω 5% 0,25W
4312	4822 051 10008	0Ω 5% 0,25W
4314	4822 051 10008	0Ω 5% 0,25W
4315	4822 051 10008	0Ω 5% 0,25W
4316	4822 051 10008	0Ω 5% 0,25W
4317	4822 051 10008	0Ω 5% 0,25W
4318	4822 051 10008	0Ω 5% 0,25W
4319	4822 051 10152	1k5 2% 0,25W
4320	4822 051 10008	0Ω 5% 0,25W

4321	4822 051 10008	0Ω 5% 0,25W
4322	4822 051 10008	0Ω 5% 0,25W
4323	4822 051 10008	0Ω 5% 0,25W
4324	4822 051 10008	0Ω 5% 0,25W
4325	4822 051 10008	0Ω 5% 0,25W
4326	4822 051 10008	0Ω 5% 0,25W
4329	4822 051 10008	0Ω 5% 0,25W
4450	4822 051 10008	0Ω 5% 0,25W
4451	4822 051 10008	0Ω 5% 0,25W
4452	4822 051 10008	0Ω 5% 0,25W
4500	4822 051 10008	0Ω 5% 0,25W
4501	4822 051 10008	0Ω 5% 0,25W
4502	4822 051 10008	0Ω 5% 0,25W
4503	4822 051 10008	0Ω 5% 0,25W
4504	4822 051 10008	0Ω 5% 0,25W
4505	4822 051 10008	0Ω 5% 0,25W
4506	4822 051 10008	0Ω 5% 0,25W
4507	4822 051 10008	0Ω 5% 0,25W
4602	4822 051 10008	0Ω 5% 0,25W
4603	4822 051 10008	0Ω 5% 0,25W
4604	4822 051 10008	0Ω 5% 0,25W
4605	4822 051 10008	0Ω 5% 0,25W
4700	4822 051 10008	0Ω 5% 0,25W
4701	4822 051 10008	0Ω 5% 0,25W
4704	4822 051 10008	0Ω 5% 0,25W
4706	4822 051 10008	0Ω 5% 0,25W
4707	4822 051 10008	0Ω 5% 0,25W
4708	4822 051 10008	0Ω 5% 0,25W
4709	4822 051 10008	0Ω 5% 0,25W
4710	4822 051 10008	0Ω 5% 0,25W
4711	4822 051 10008	0Ω 5% 0,25W
4712	4822 051 10008	0Ω 5% 0,25W
4713	4822 051 10008	0Ω 5% 0,25W
4714	4822 051 10008	0Ω 5% 0,25W
4715	4822 051 10008	0Ω 5% 0,25W
4716	4822 051 10008	0Ω 5% 0,25W
4718	4822 051 10008	0Ω 5% 0,25W
4720	4822 051 10008	0Ω 5% 0,25W
4721	4822 051 10008	0Ω 5% 0,25W
4723	4822 051 10008	0Ω 5% 0,25W
4850	4822 051 10008	0Ω 5% 0,25W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4853	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4857	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W
4859	4822 051 10008	0Ω 5% 0,25W
4862	4822 051 10008	0Ω 5% 0,25W
4863	4822 051 10008	0Ω 5% 0,25W
4865	4822 051 10008	0Ω 5% 0,25W
4866	4822 051 10008	0Ω 5% 0,25W
4867	4822 051 10008	0Ω 5% 0,25W

5240	4822 158 10551	27µH
5242	4822 158 10551	27µH
5301	4822 157 63075	7,95µH 8%
5303	4822 157 53906	47µH
5303	5322 157 51687	39µH 10%
5304	4822 157 63074	7,6µH
5306	4822 320 40081	470 NSEC
5530	4822 152 20559	390µH 10%
5534	4822 158 10728	coil 25"/28"
5534	4822 157 62771	coil 21"
5541	4822 157 63078	line driver
5545	4822 140 10417	L.O.T. 25"/28" non BL.L.
5545	4822 140 10414	L.O.T. 25"/28" BL.L.
5545	4822 140 10418	L.O.T. 21"
5549	4822 157 53069	coil balance
5554	4822 157 63079	AT4042/97 25"/28"
5554	4822 157 63161	AT4042/90G 21"
5582	5322 157 52539	15µH
5588	4822 157 52505	33µH 10%
5605	4822 157 53995	100µH 10%
5606	4822 157 53995	100µH 10%
5619	4822 156 21125	3,9µH 10% 25"/28"
5619	4822 157 51235	4µH 7 10% 21"
5621	4822 157 60412	150µH 10% 25"/28"
5621	4822 157 53903	180µH 10% 21"
5625	4822 148 81159	S.O.P.S. trafo 21"
5625	4822 148 81168	S.O.P.S. trafo 25"/28"
5630	4822 157 60387	1µH
5631	4822 158 10551	27µH
5632	4822 158 10551	27µH
5661	4822 152 20678	33µH 10%
5701	4822 157 52843	56µH 5%
5703	4822 157 52279	33µH 10%
5801	4822 157 53001	27µH 10%

6245	4822 130 30621	1N4148
6246	4822 130 81139	LLZ-C3V3
6247	4822 130 81139	LLZ-C3V3
6248	4822 130 80446	LL4148
6249	4822 130 80446	LL4148
6300	4822 130 80446	LL4148
6302	4822 130 34382	BZX79-C8V2
6303	4822 130 34382	BZX79-C8V2
6310	4822 130 80954	LLZ-C5V6
6315	4822 130 80446	LL4148
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 130 80446	LL4148
6367	4822 130 80884	LLZ-C5V1
6464	4822 130 81015	LLZ-C10
6465	4822 130 61219	BZX79-F10
6465	4822 130 80239	BZX79-F8V2
6465	4822 130 34281	BZX79-F15
6503	4822 130 42489	BYD33G
6504	4822 130 80446	LL4148
6518	4822 130 80446	LL4148
6519	4822 130 80446	LL4148
6546	4822 130 41275	BY228/20
6547	4822 130 41602	BYW95C/20
6548	4822 130 30621	1N4148
6549	4822 130 42488	BYD33D
6551	4822 130 42489	BYD33G
6560	4822 130 80446	LL4148
6561	4822 130 34383	BZX79-C47
6563	4822 130 80915	BYD74C
6570	4822 130 42488	BYD33D
6571	4822 130 42488	BYD33D
6580	4822 130 82512	BYV29F-400
6580	4822 130 32961	BYV28-200
6585	4822 130 42488	BYD33D
6590	4822 130 81141	LLZ-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	LL4148
6611	4822 130 34268	LLZ-F16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6630	4822 130 33531	BY229F-600
6630	4822 130 81175	BYD74G
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D

Carrier panel (continued)

6648	4822 130 34488	BZX79-F12
6648	4822 130 61219	BZX79-F10
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	LLZ-F5V1
6663	4822 130 34281	BZX79-F15
6664	4822 130 61219	BZX79-F10
6664	4822 130 30862	BZX79-F9V1
6665	4822 130 80883	LLZ-C4V7
6666	4822 130 80887	LLZ-C36
6666	4822 130 81141	LLZ-C43
6669	4822 130 80446	LL4148
6670	4822 130 20245	SF0Ω5D43
6675	4822 130 80914	BYD74B
6675	4822 130 42488	BYD33D
6705	4822 130 80905	LLZ-F5V1
6707	4822 209 72895	TLUV5320
6708	4822 130 81145	LLZ-F2V4
6709	4822 130 82037	HZT33

7000	5322 130 42012	BC858A
7001	5322 130 42012	BC858A
7002	5322 130 42012	BC858A
7003	4822 130 42133	BC817
7240	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858
7244	4822 130 42513	BC858C
7245	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7247	5322 130 42136	BC848C
7248	4822 130 61207	BC848
7249	4822 130 61207	BC848
7301	4822 130 61207	BC848
7302	5322 130 42012	BC858
7303	4822 130 61207	BC848
7305	4822 209 70019	TDA4510/V2/S8
7306	4822 209 63109	TDA4650/V3
7307	4822 209 63108	TDA4660/V2
7308	4822 209 71512	TDA4565/V6
7309	4822 209 63733	TDA4680/V5
7310	4822 130 61207	BC848
7311	5322 209 10576	4053B
7312	5322 209 10576	4053B
7341	4822 130 61207	BC848
7370	4822 130 61207	BC848
7371	4822 130 61207	BC848
7372	4822 130 61207	BC848
7373	4822 130 61207	BC848
7374	4822 130 61207	BC848
7455	5322 130 42012	BC858
7470	4822 209 63297	TDA2579B/N1
7500	4822 130 41344	BC337-40
7502	4822 130 60775	2SD1266P
7503	4822 130 61236	BD234
7504	4822 130 61207	BC848
7505	5322 130 42012	BC858
7530	4822 130 61207	BC848
7533	4822 130 60111	2SA1359
7534	4822 130 44283	BC636
7540	4822 130 41344	BC337-40
7545	4822 130 61265	BU508AF
7546	4822 130 62677	BUT11AF/1
7591	5322 130 42012	BC858
7600	4822 209 63735	TDA8385/N2
7614	4822 209 63732	CNR50
7625	4822 130 43919	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848
7672	4822 130 61207	BC848
7701	5322 130 42012	BC858A
7702	4822 130 61207	BC848
7703	4822 130 61207	BC848
7704	4822 130 61207	BC848
7705	4822 130 61207	BC848
7706	4822 130 61207	BC848
7707	4822 130 61207	BC848
7708	4822 209 63872	TMP47C1237N-U105 GR2VSL1
7708	4822 209 63947	TMP47C1237N-U107 GR2VSL2
7708	4822 209 63861	TMP47C1637N-U208 GR2FSL2
7708	4822 209 63875	TMP47C1637N-U211 GR2FSL1
7709	4822 130 61207	BC848
7710	4822 209 62098	ST24C02CP
7711	4822 130 61207	BC848
7712	4822 130 61207	BC848
7805	4822 130 61207	BC848
7810	4822 130 61207	BC848

Mains module

	4822 212 23664	mains mod.

10	4822 265 30389	2P MALE
32	4822 265 30389	2P MALE
33	4822 265 30877	3P MALE

2601	4822 121 40487	100n 400V

3601	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω

5600	4822 157 63073	filter

6602	4822 130 31933	1N5061
6603	4822 130 31933	1N5061
6604	4822 130 31933	1N5061
6605	4822 130 31933	1N5061

CRT modules

	4822 212 23675	CRT MOD. 25"/28" BL.L.
	4822 212 23676	CRT MOD. 25"/28" NON BL.L.
	4822 212 23678	CRT MOD. 21"

19	4822 265 30378	4P MALE
20	4822 290 40295	7P MALE
21	4822 255 70261	CRT SOCKET 25"/28"
21	4822 255 70251	CRT SOCKET 21"

2301	4822 122 31961	68pF 5% 63V
2301	4822 122 31825	27pF 10% 50V
2301	4822 122 32482	22pF 5% 63V
2331	4822 122 31774	56pF 5% 50V
2331	4822 122 31825	27pF 10% 50V
2331	4822 122 32482	22pF 5% 63V
2361	4822 122 31774	56pF 5% 50V
2361	4822 122 32482	22pF 5% 63V
2361	4822 122 31825	27pF 10% 50V
2391	4822 121 43878	27pF 2% 500V
2392	4822 124 40246	4,7µF 20% 63V
2392	4822 124 41577	4,7µF 20% 50V
2411	4822 124 40849	330µF 20% 16V
2412	4822 122 33496	100nF 10% 63V
2421	4822 122 31772	47pF 5% 50V
2431	4822 121 41689	100nF 10% 250V
2432	4822 124 41506	47µF 20% 16V
2433	5322 121 50885	33nF 5% 1kV
2434	5322 122 32334	220pF 10% 100V

3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10152	1k5 2% 0,25W
3302	4822 051 10162	1k6 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3303	4822 051 10272	2k7 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3305	4822 116 52283	4k7 5% 0,5W
3306	4822 116 52283	4k7 5% 0,5W
3307	4822 116 52283	4k7 5% 0,5W
3308	4822 051 10479	47Ω 2% 0,25W
3308	4822 051 10118	1Ω1 5% 0,25W
3310	4822 116 52219	330Ω 5% 0,5W
3311	4822 053 12123	12k 5% 3W
3311	4822 053 12153	15k 5% 3W
3312	4822 052 10271	270Ω 5% 0,33W
3313	4822 052 10271	270Ω 5% 0,33W
3314	4822 050 21502	1k5 1% 0,6W
3315	4822 051 10124	120k 2% 0,25W
3316	4822 051 10124	120k 2% 0,25W
3331	4822 051 10131	130Ω 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3332	4822 051 10162	1k6 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3333	4822 051 10272	2k7 2% 0,25W
3334	4822 116 52239	120k 5% 0,5W
3335	4822 116 52283	4k7 5% 0,5W
3336	4822 116 52283	4k7 5% 0,5W
3337	4822 116 52283	4k7 5% 0,5W
3339	4822 051 10479	47Ω 2% 0,25W
3339	4822 051 10118	1Ω1 5% 0,25W
3340	4822 116 52219	330Ω 5% 0,5W
3341	4822 053 12153	15k 5% 3W
3342	4822 052 10271	270Ω 5% 0,33W
3343	4822 052 10271	270Ω 5% 0,33W
3344	4822 050 21502	1k5 1% 0,6W
3345	4822 051 10681	680Ω 2% 0,25W
3361	4822 116 52208	130Ω 5% 0,5W
3361	4822 051 10131	130Ω 2% 0,25W
3362	4822 051 10152	1k5 2% 0,25W
3362	4822 051 10162	1k6 2% 0,25W
3362	4822 051 10362	3k6 2% 0,25W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 116 52239	120k 5% 0,5W
3365	4822 116 52283	4k7 5% 0,5W
3366	4822 116 52283	4k7 5% 0,5W
3367	4822 116 52283	4k7 5% 0,5W
3368	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10118	1Ω1 5% 0,25W
3370	4822 116 52219	330Ω 5% 0,5W
3371	4822 053 12103	10k 5% 3W
3371	4822 053 12153	15k 5% 3W
3372	4822 052 10271	270Ω 5% 0,33W
3373	4822 052 10271	270Ω 5% 0,33W
3374	4822 050 21502	1k5 1% 0,6W
3391	4822 051 10104	100k 2% 0,25W
3392	4822 051 10104	100k 2% 0,25W
3393	4822 116 52234	100k 5% 0,5W
3393	4822 050 28203	82k 1% 0,6W
3394	4822 051 10333	33k 2% 0,25W
3394	4822 116 52267	30k 5% 0,5W
3395	4822 051 10683	68k 2% 0,25W
3396	4822 051 10124	120k 2% 0,25W
3397	4822 051 10124	120k 2% 0,25W
3411	4822 051 10182	1k8 2% 0,25W
3411	4822 116 52243	1k5 5% 0,5W
3412	4822 116 52224	470Ω 5% 0,5W
3413	4822 116 52218	300Ω 5% 0,5W
3413	4822 051 10221	220Ω 2% 0,25W
3414	4822 051 10519	51Ω 2% 0,25W
3414	4822 051 10479	47Ω 2% 0,25W
3415	4822 116 52218	300Ω 5% 0,5W
3415	4822 051 10221	220Ω 2% 0,25W
3421	4822 051 10104	100k 2% 0,25W
3422	4822 051 10682	6k8 2% 0,25W
3422	4822 050 26802	6k8 1% 0,6W
3423	4822 051 10474	470k 2% 0,25W
3423	4822 116 52285	470k 5% 0,5W
3431	4822 052 10181	180Ω 5% 0,33W
3432	4822 052 10399	39Ω 5% 0,33W
3433	4822 052 10108	1Ω 5% 0,33W
3434	4822 050 21502	1k5 1% 0,6W
3435	4822 050 21502	1k5 1% 0,6W
3436	4822 050 21805	1M8 1% 0,6W
4000	4822 051 10008	0Ω 5% 0,25W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W

5401	4822 156 20915	33µH
5401	4822 158 10563	82µH 7,5%

6301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
6345	4822 130 81015	BZV55-F10
6361	4822 130 80877	BAV103
6411	4822 130 80879	BZV55-C3V0
6421	4822 130 80446	LL4148

7301	4822 130 41773	BF869
7301	4822 130 41782	BF422
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7332	4822 130 41773	BF869
7332	4822 130 41782	BF422
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858A
7362	4822 130 41773	BF869
7362	4822 130 41782	BF422
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7391	4822 130 41646	BF423
7411	4822 130 40938	BC548
7421	5322 130 41983	BC858B

Euro module

1006	4822 212 23666	EURO MODULE

23	4822 265 40442	10P MALE
26	4822 265 40442	10P MALE
30	4822 265 41086	9P MALE
32	4822 267 40666	3P MALE
48	4822 267 60247	EURO CONNECTOR

2800	4822 121 51252	470nF 5% 63V
2801	4822 121 51252	470nF 5% 63V
2802	4822 121 51252	470nF 5% 63V
2803	4822 121 51252	470nF 5% 63V
2804	4822 122 33496	100nF 10% 63V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 124 41506	47µF 20% 16V
2810	4822 122 32142	270pF 5% 63V
2811	4822 122 32142	270pF 5% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32542	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 33496	100nF 10% 63V
2817	4822 122 33496	100nF 10% 63V
2818	4822 122 33496	100nF 10% 63V
2819	4822 124 41525	100µF 20% 25V
2820	5322 121 42386	100nF 5% 63V
2821	4822 124 40433	47µF 20% 25V
2822	4822 124 40435	10µF 20% 50V
2823	4822 122 33496	100nF 10% 63V
2831	4822 124 40272	33µF 20% 16V
2833	4822 122 33496	100nF 10% 63V
2834	4822 122 33496	100nF 10% 63V

3800	4822 116 52189	30Ω 5% 0,5W
3801	4822 116 80747	75Ω 5% 0,125W
3802	4822 116 52211	150Ω 5% 0,5W
3803	4822 116 52211	150Ω 5% 0,5W
3804	4822 116 52204	1k 5% 0,5W
3805	4822 116 52204	1k 5% 0,5W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	330k 2% 0,25W
3809	4822 051 10334	330k 2% 0,25W
3810	4822 051 10622	6k2 2% 0,25W
3811	4822 051 10182	1k8 2% 0,25W
3812	4822 051 10331	330Ω 2% 0,25W
3813	4822 116 52201	75Ω 5% 0,5W
3814	4822 051 10152	1k5 2% 0,25W
3815	4822 051 10472	4k7 2% 0,25W
3816	4822 116 52296	6k8 5% 0,5W
3819	4822 051 10331	330Ω 2% 0,25W
3820	4822 051 10331	330Ω 2% 0,25W
3821	4822 051 10331	330Ω 2% 0,25W
3822	4822 051 10331	330Ω 2% 0,25W
3823	4822 051 10561	560Ω 2% 0,25W
3824	4822 051 10151	150Ω 2% 0,25W
3825	4822 051 10223	22k 2% 0,25W
3826	4822 051 10102	1k 2% 0,25W
3827	4822 051 10339	33Ω 2% 0,25W
3828	4822 051 10562	5k6 2% 0,25W
3829	4822 051 10821	820Ω 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 2% 0,25W
3833	4822 051 10279	27Ω 2% 0,25W
3834	4822 051 10279	27Ω 2% 0,25W
3835	4822 051 10221	220Ω 2% 0,25W
3836	4822 051 10102	1k 2% 0,25W
3837	4822 052 10278	2Ω7 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W

5800	4822 157 51462	10µH

6800	4822 130 80954	LLZ-C5V6
6801	4822 130 80446	LL4148
6802	4822 130 80446	LL4148
6803	4822 130 30621	1N4148

7800	5322 130 44921	BD943
7801	5322 209 10576	4053B
7802	5322 209 10576	4053B
7820	4822 130 61207	BC848
7821	5322 130 42136	BC848C
7822	5322 130 42012	BC858
7823	4822 130 61207	BC848
7824	4822 130 61207	BC848

Mono IF/sound module

	4822 212 23688	IF MOD. MULTI
	4822 212 23689	IF MOD. PAL/SECAM BG
	4822 212 23694	IF MOD. PAL I

various

1010	4822 242 72212	OFWG3950
1010	4822 242 72374	OFWG1961
1010	4822 242 70936	OFWJ1952
1042	4822 242 72211	TPS 5,5MHz
1043	4822 153 30025	6MHz
1102	4822 242 70714	SFT5,5MA
1103	4822 242 71841	SFT6,0MA

2011	4822 124 40435	10µF 20% 50V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2019	4822 122 31784	4,7nF 10% 50V
2020	4822 122 33205	12pF 10% 63V
2021	4822 122 33205	12pF 10% 63V
2022	4822 122 33472	22pF 2%
2025	4822 122 31784	4,7nF 10% 50V
2035	4822 122 32507	6,8pF 5% 50V
2036	4822 122 31766	120pF 5% 50V
2037	4822 122 31766	120pF 5% 50V
2038	4822 122 31784	4,7nF 10% 50V
2039	4822 122 32504	15pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF ±0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41566	3,3µF 20% 50V
2060	4822 122 31797	22nF 10% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33474	47pF 2%
2105	4822 122 33465	39pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	5322 126 10514	0,47pF 5% 63V
2111	4822 122 31784	4,7nF 10% 50V
2113	4822 124 41596	22µF 20% 50V
2114	4822 122 31784	4,7nF 10% 50V
2115	4822 124 41577	4,7µF 20% 50V
2116	4822 124 40435	10µF 20% 50V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 40432	1500µF 20% 25V
2124	4822 122 32442	10nF 50V
2125	4822 124 40195	150µF 20% 16V
2126	4822 121 43898	8,2nF 10% 50V
2127	5322 121 42661	330nF 5% 63V
2129	5322 121 42661	330nF 5% 63V
2130	5322 121 42661	330nF 5% 63V
2132	4822 122 31797	22nF 10% 63V

Mono IF/sound module (continued)

2133	4822 122 31797	22nF 10% 63V
2134	4822 124 41596	22µF 20% 50V
2135	4822 121 42408	220nF 5% 63V
2136	5322 121 42661	330nF 5% 63V
2137	4822 126 11381	820pF 2%
2137	4822 122 31746	1000pF 5% 50V
2141	4822 124 41577	4,7µF 20% 50V
2143	4822 122 31797	22nF 10% 63V
2150	4822 121 42408	220nF 5% 63V
2151	4822 124 40195	150µF 20% 16V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11163	100k 30% LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10223	22k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3022	4822 051 10151	150Ω 2% 0,25W
3022	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 20222	2k2 5% 0,1W
3025	4822 051 10562	5k6 2% 0,25W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10392	3k9 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10101	100Ω 2% 0,25W
3042	4822 051 10221	220Ω 2% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10681	680Ω 2% 0,25W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 100 11683	2k 30% LIN 0,2W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10471	470Ω 2% 0,25W
3052	4822 051 10561	560Ω 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10563	56k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3067	4822 051 10331	330Ω 2% 0,25W
3068	4822 051 10152	1k5 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3080	4822 051 20222	2k2 5% 0,1W
3080	4822 051 10332	3k3 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3104	4822 051 10479	47Ω 2% 0,25W
3105	4822 053 11271	270Ω 5% 2W
3107	4822 051 10151	150Ω 2% 0,25W
3108	4822 051 10333	33k 2% 0,25W
3109	4822 051 10223	22k 2% 0,25W
3112	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10182	1k8 2% 0,25W
3116	4822 116 52263	2k7 5% 0,5W
3117	4822 051 10104	100k 2% 0,25W
3118	4822 051 10472	4k7 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 2% 0,25W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10103	10k 2% 0,25W
3126	4822 051 10153	15k 2% 0,25W
3127	4822 051 10153	15k 2% 0,25W
3129	4822 051 10822	8k2 2% 0,25W
3130	4822 051 10682	6k8 2% 0,25W
3131	4822 051 10102	1k 2% 0,25W
3132	4822 051 10392	3k9 2% 0,25W
3140	4822 051 10153	15k 2% 0,25W
3141	4822 051 10392	3k9 2% 0,25W
3142	4822 051 10273	27k 2% 0,25W
3143	4822 051 10182	1k8 2% 0,25W
3144	4822 051 10182	1k8 2% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W

5005	4822 157 53539	0,27µH 5%
5010	4822 157 63081	0,56µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 157 52983	22µH
5041	4822 157 52983	22µH
5041	4822 157 53001	27µH 10%
5042	4822 157 53634	5,6µH 10%
5042	4822 152 20677	10µH
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%
5105	4822 157 52511	0,83µH

6005	4822 130 80888	BA682
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6108	4822 130 80888	BA682
6112	4822 130 80884	LLZ-C5V1

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7041	4822 130 61207	BC848
7100	4822 209 63105	TDA3843/V2
7101	4822 209 63217	TDA3827/V2
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B

Stereo IF/sound module

	4822 212 23663	IF MOD. MULTI
	4822 212 23687	IF MOD. NON MULTI

various

1010	4822 242 80205	OFWK3261
1010	4822 242 72554	OFWG3254
1042	4822 242 72211	TPS 5,5MW
1101	4822 242 70485	SFT5,74MA
1102	4822 242 71713	SFE6,0MBF
1103	4822 242 70714	SFT5,5MA
1200	4822 242 80208	10 MHz

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2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2035	4822 122 32506	5,6pF 5% 50V
2035	4822 051 10472	4k7 2% 0,25W
2036	4822 122 31784	4,7nF 10% 50V
2037	4822 122 31784	4,7nF 10% 50V
2038	4822 122 33496	100nF 10% 63V
2039	4822 122 32083	8,2pF 5% 50V
2039	4822 051 10682	6k8 2% 0,25W
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2051	4822 122 33496	100nF 10% 63V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF 5% 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41407	0,47µF 20% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33465	39pF 2%
2105	4822 126 11379	33pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 122 32507	6,8pF 5% 50V
2111	4822 122 31784	4,7nF 10% 50V
2112	4822 122 32505	2,7pF 5% 50V
2113	4822 124 40435	10µF 20% 50V
2114	4822 122 32442	10nF 50V
2115	4822 124 41509	33µF 20% 35V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 41576	2,2µF 20% 50V
2119	4822 122 31797	22nF 10% 63V
2120	4822 124 41576	2,2µF 20% 50V
2122	4822 122 33496	100nF 10% 63V
2123	4822 124 41577	4,7µF 20% 50V
2123	4822 124 40242	1µF 20% 63V
2124	4822 124 41576	2,2µF 20% 50V
2125	4822 122 10527	910pF 2% NPO 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 126 11381	820pF 2% NPO
2127	4822 122 31746	1000pF 5% 50V
2128	4822 126 11381	820pF 2% NPO
2129	4822 122 33476	220pF 2% 50V
2130	4822 124 40195	150µF 20% 16V
2133	4822 122 31797	22nF 10% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 121 51252	470nF 5% 63V
2203	4822 122 31916	5,6nF 10% 63V
2204	4822 121 42408	220nF 5% 63V
2204	4822 121 42408	220nF 5% 63V
2205	4822 122 32893	100nF 80% 50V
2206	4822 121 51252	470nF 5% 63V
2207	4822 121 51252	470nF 5% 63V
2208	4822 124 41509	33µF 20% 35V
2209	4822 124 41509	33µF 20% 35V
2210	4822 122 32893	100nF 80% 50V
2211	4822 124 40198	470µF 20% 16V
2212	4822 124 40435	10µF 20% 50V
2213	4822 122 31782	15000pF 10% 50V
2214	4822 122 31782	15000pF 10% 50V
2215	4822 122 31981	33nF ±0,5pF 50V
2216	4822 122 31916	5,6nF 10% 63V
2217	4822 122 31981	33nF ±0,5pF 50V
2218	4822 122 31916	5,6nF 10% 63V
2219	4822 124 41577	4,7µF 20% 50V
2220	4822 124 41577	4,7µF 20% 50V
2221	4822 124 41577	4,7µF 20% 50V
2222	4822 124 41643	100µF 20% 16V

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3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 116 52234	100k 5% 0,5W
3016	4822 100 11163	100k 30% LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10472	4k7 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10151	150Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 0,125W
3043	4822 116 52175	100Ω 5% 0,5W
3044	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 116 52228	680Ω 5% 0,5W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 100 11683	2k 30% LIN 0,2W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10224	220k 2% 0,25W
3065	4822 051 10472	4k7 2% 0,25W
3065	4822 051 10124	120k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3070	4822 051 10822	8k2 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3105	4822 053 11121	120Ω 5% 2W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10102	1k 2% 0,25W
3108	4822 051 10561	560Ω 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10562	5k6 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3115	4822 051 10331	330Ω 2% 0,25W
3117	4822 051 10561	560Ω 2% 0,25W
3117	4822 051 10681	680Ω 2% 0,25W
3119	4822 051 10562	5k6 2% 0,25W
3120	4822 051 10562	5k6 2% 0,25W
3121	4822 051 10562	5k6 2% 0,25W
3122	4822 051 10122	1k2 2% 0,25W
3123	4822 051 10561	560Ω 2% 0,25W
3124	4822 051 20222	2k2 5% 0,1W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10152	1k5 2% 0,25W
3128	4822 051 10182	1k8 2% 0,25W
3200	4822 051 10331	330Ω 2% 0,25W
3201	4822 051 10331	330Ω 2% 0,25W
3202	4822 051 10563	56k 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 100 11676	10k 30% LIN 0,2W
3205	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10478	4Ω7 5% 0,25W
3207	4822 051 10273	27k 2% 0,25W
3208	4822 051 10272	2k7 2% 0,25W
3209	4822 051 10333	33k 2% 0,25W
3210	4822 116 52204	1k 5% 0,5W
3211	4822 051 10101	100Ω 2% 0,25W
3213	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4040	4822 051 10008	0Ω 5% 0,25W
4041	4822 051 10008	0Ω 5% 0,25W
4042	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W
4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W
4105	4822 051 10008	0Ω 5% 0,25W
4107	4822 051 10008	0Ω 5% 0,25W
4108	4822 051 10008	0Ω 5% 0,25W
4201	4822 051 10008	0Ω 5% 0,25W
4204	4822 051 10008	0Ω 5% 0,25W
4205	4822 051 10008	0Ω 5% 0,25W

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5010	4822 157 63081	0,56µH 20%
5010	4822 157 53302	1µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 152 20678	33µH 10%
5042	4822 157 62767	8,2µH 10%
5042	4822 157 53634	5,6µH 10%
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%

Stereo IF/sound module (cont.)

5103	4822 157 52511	0,83µH
5104	4822 157 63077	0,25µH 5%
5105	4822 157 52511	0,83µH

6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6108	4822 130 80888	BA682
6109	4822 130 80446	LL4148

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7100	4822 209 63059	TDA3856/V3
7101	4822 209 63784	TDA3857/V3
7102	4822 130 61207	BC848
7103	5322 130 42012	BC858
7104	4822 130 61207	BC848
7200	4822 209 63294	TDA8417/V1
7220	4822 209 63734	TDA8425/V7
7232	5322 130 41982	BC848B

NICAM IF/sound module

	4822 212 23692	IF MOD. PAL BG
	4822 212 23691	IF MOD. PAL I

various

1010	4822 242 72554	OFWG3254
1010	4822 242 72553	OFWJ3251
1042	4822 242 72211	TPS 5,5MHz
1042	4822 153 30025	6MHz
1100	4822 242 70485	~~SFT5,74MA~~
1105	~~4822 242 70714~~	SFT5,5MA
1105	4822 242 71713	SFE6,0MBF
1116	4822 242 72301	TH316BQM-2080QDAF
1116	4822 242 72303	TH316BQM-2110QDAF
1125	4822 242 72302	5,850 MHz
1125	4822 242 ~~72347~~	6,552 MHz
1141	4822 242 72304	5,824 MHz
1191	4822 253 10064	FUSE 0,4A
1200	4822 242 80208	10 MHz

2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31797	22nF 10% 63V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2100	4822 124 40242	1µF 20% 63V
2101	4822 122 31746	1000pF 5% 50V
2102	4822 122 31746	1000pF 5% 50V
2102	4822 122 32765	820pF 10% 63V
2104	4822 122 31784	4,7nF 10% 50V
2106	4822 124 41576	2,2µF 20% 50V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 122 32862	10nF 80% 50V
2109	4822 124 41509	33µF 20% 35V
2110	4822 122 32893	100nF 80% 50V
2116	5322 122 31647	1nF 10% 63V
2119	4822 124 40198	470µF 20% 16V
2120	4822 124 41407	0,47µF 20% 63V
2121	4822 124 41407	0,47µF 20% 63V
2122	4822 122 32862	10nF 80% 50V
2123	4822 122 31774	56pF 5% 50V
2124	4822 125 50045	20pF
2125	4822 122 33205	12pF 10% 63V
2126	4822 122 31769	18pF 5% 50V
2127	4822 124 41407	0,47µF 20% 63V
2128	4822 122 32862	10nF 80% 50V
2129	4822 122 31965	220pF 5% 63V
2130	4822 122 31965	220pF 5% 63V
2131	4822 122 32862	10nF 80% 50V
2132	4822 122 32862	10nF 80% 50V
2133	4822 122 32893	100nF 80% 50V
2134	4822 122 32893	100nF 80% 50V
2135	4822 122 32893	100nF 80% 50V
2136	4822 122 32893	100nF 80% 50V
2137	4822 122 32862	10nF 80% 50V
2138	4822 122 32862	10nF 80% 50V
2139	4822 124 41407	0,47µF 20% 63V
2140	4822 122 31774	56pF 5% 50V
2141	4822 122 31769	18pF 5% 50V
2142	4822 122 32444	33pF 5% 50V
2143	4822 122 32504	15pF 5% 50V
2144	4822 122 32862	10nF 80% 50V
2145	4822 124 41506	47µF 20% 16V
2146	4822 122 32504	15pF 5% 50V
2147	4822 122 32504	15pF 5% 50V
2148	4822 122 33496	100nF 10% 63V
2150	4822 122 32893	100nF 80% 50V
2151	4822 122 31772	47pF 5% 50V
2153	4822 122 32862	10nF 80% 50V
2154	4822 122 31972	39pF 5% 50V
2155	4822 125 50045	20pF
2162	4822 122 32893	100nF 80% 50V
2168	4822 122 33496	100nF 10% 63V
2169	4822 124 41506	47µF 20% 16V
2170	4822 122 31759	18nF
2170	4822 122 32597	6,8nF 10% 63V
2171	4822 122 33608	39nF 10% 63V
2171	4822 122 31782	15000pF 10% 50V
2173	4822 122 31773	560pF 5% 50V
2174	4822 122 33498	2,7nF 10% 63V
2175	4822 122 32999	2,2N 5% NPO
2176	4822 121 51252	470nF 5% 63V
2177	4822 122 32863	22nF 80% 50V
2180	4822 122 31759	18nF
2180	4822 122 32597	6,8nF 10% 63V
2181	4822 122 33608	39nF 10% 63V
2181	4822 122 31782	15000pF 10% 50V
2183	4822 122 31773	560pF 5% 50V
2184	4822 122 33498	2,7nF 10% 63V
2185	4822 122 32999	2,2N 5% NPO
2186	4822 121 51252	470nF 5% 63V
2187	4822 122 32863	22nF 80% 50V
2188	4822 124 41506	47µF 20% 16V
2189	4822 122 32863	22nF 80% 50V
2190	4822 122 32893	100nF 80% 50V
2191	4822 124 41643	100µF 20% 16V
2192	4822 122 32893	100nF 80% 50V
2193	4822 124 40849	330µF 20% 16V
2194	4822 122 32893	100nF 80% 50V
2195	4822 124 41506	47µF 20% 16V
2196	4822 122 32862	10nF 80% 50V
2197	4822 124 41506	47µF 20% 16V
2198	4822 121 51252	470nF 5% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 122 31766	120pF 5% 50V
2203	4822 124 41509	33µF 20% 35V
2204	4822 124 41509	33µF 20% 35V
2205	4822 122 32893	100nF 80% 50V
2207	4822 121 51252	470nF 5% 63V
2209	4822 121 51252	470nF 5% 63V
2210	4822 124 41577	4,7µF 20% 50V
2211	4822 121 42408	220nF 5% 63V
2212	4822 122 31916	5,6nF 10% 63V
2213	4822 124 40195	150µF 20% 16V
2214	4822 122 32893	100nF 80% 50V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31981	33nF ±0,5pF 50V
2217	4822 124 41577	4,7µF 20% 50V
2218	4822 124 41643	100µF 20% 16V
2219	4822 124 41577	4,7µF 20% 50V
2220	4822 122 31916	5,6nF 10% 63V
2223	4822 122 31916	5,6nF 10% 63V
2224	4822 122 31981	33nF ±0,5pF 50V
2225	4822 122 31782	15000pF 10% 50V
2226	4822 122 31782	15000pF 10% 50V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3016	4822 100 11163	100k 30% LIN 0,1W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W

NICAM IF/sound module (continued)

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3030	4822 051 10223	22k 2% 0,25W
3035	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 0,125W
3042	4822 051 10101	100Ω 2% 0,25W
3043	4822 050 21001	100Ω 1% 0,6W
3044	4822 051 10102	1k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3065	4822 051 10472	4k7 2% 0,25W
3070	4822 051 10822	8k2 2% 0,25W
3100	4822 051 10561	560Ω 2% 0,25W
3101	4822 051 10331	330Ω 2% 0,25W
3102	4822 051 10681	680Ω 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10122	1k2 2% 0,25W
3108	4822 051 20222	2k2 5% 0,1W
3109	4822 053 11121	120Ω 5% 2W
3110	4822 051 10102	1k 2% 0,25W
3116	4822 051 10471	470Ω 2% 0,25W
3120	4822 051 10154	150k 2% 0,25W
3121	4822 051 10224	220k 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10511	510Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10393	39k 2% 0,25W
3139	4822 051 10393	39k 2% 0,25W
3140	4822 051 10471	470Ω 2% 0,25W
3141	4822 051 10102	1k 2% 0,25W
3143	4822 051 10331	330Ω 2% 0,25W
3144	4822 052 10278	2Ω7 5% 0,33W
3150	4822 051 10102	1k 2% 0,25W
3151	4822 051 10103	10k 2% 0,25W
3160	4822 051 10331	330Ω 2% 0,25W
3161	4822 051 10331	330Ω 2% 0,25W
3162	4822 051 10331	330Ω 2% 0,25W
3168	4822 052 10278	2Ω7 5% 0,33W
3170	4822 051 10562	5k6 2% 0,25W
3170	4822 051 10153	15k 2% 0,25W
3171	4822 051 10102	1k 2% 0,25W
3171	4822 051 10272	2k7 2% 0,25W
3172	4822 051 10472	4k7 2% 0,25W
3173	4822 051 10472	4k7 2% 0,25W
3177	4822 051 10822	8k2 2% 0,25W
3177	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10562	5k6 2% 0,25W
3180	4822 051 10153	15k 2% 0,25W
3181	4822 051 10102	1k 2% 0,25W
3181	4822 051 10272	2k7 2% 0,25W
3182	4822 051 10472	4k7 2% 0,25W
3183	4822 051 10472	4k7 2% 0,25W
3188	4822 052 10109	10Ω 5% 0,33W
3190	4822 051 10471	470Ω 2% 0,25W
3191	4822 052 10399	39Ω 5% 0,33W
3192	4822 052 10478	4Ω7 5% 0,33W
3195	4822 052 10109	10Ω 5% 0,33W
3197	4822 051 10331	330Ω 2% 0,25W
3200	4822 100 11676	10k 30% LIN 0,2W
3201	4822 051 10822	8k2 2% 0,25W
3202	4822 051 10512	5k1 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10563	56k 2% 0,25W
3205	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10331	330Ω 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W
3210	4822 051 10102	1k 2% 0,25W
3213	4822 051 10478	4Ω7 5% 0,25W
3214	4822 051 10273	27k 2% 0,25W
3215	4822 051 10272	2k7 2% 0,25W
3216	4822 051 10333	33k 2% 0,25W
3217	4822 051 10102	1k 2% 0,25W
3218	4822 051 10101	100Ω 2% 0,25W
4000	4822 051 10393	39k 2% 0,25W
4000	4822 051 10392	3k9 2% 0,25W
4199	4822 051 10008	0Ω 5% 0,25W

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5010	4822 157 53302	1μH
5035	4822 157 53534	0,34μH 5%
5036	4822 157 53609	0,36μH 5%
5042	4822 157 53634	5,6μH 10%
5101	4822 157 52511	0,83μH
5102	4822 157 52511	0,83μH
5103	4822 157 63077	0,25μH 5%
5129	4822 157 51238	0,820μH
5130	4822 157 51238	0,820μH
5153	4822 157 53575	3,3μH

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6151	5322 130 34953	BB405B
6190	4822 130 80446	LL4148
6191	4822 130 80954	LLZ-C5V6
6197	4822 130 81027	LLZ-C11

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7000	4822 209 72812	TDA2549/C4
7035	4822 130 44121	BC338
7100	4822 209 63784	TDA3857/V3
7106	4822 130 61207	BC848
7108	5322 130 42012	BC858
7120	4822 209 73558	TA8662N
7150	4822 209 61114	CF70123
7160	5322 209 10883	PCF8574P
7168	4822 209 73236	TDA1543/N2
7170	4822 209 83163	LM833N
7180	4822 209 83163	LM833N
7190	5322 130 41983	BC858B
7191	4822 130 44121	BC338
7195	4822 130 61207	BC848
7200	4822 209 61026	TDA8415/V1
7213	4822 209 63734	TDA8425/V7
7217	5322 130 41982	BC848B

Teletext module

	4822 212 23697	TXT MOD. EUROPE
	4822 212 23698	TXT MOD. SCAN

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21	4822 267 40469	6P MALE GOLD
22	4822 265 40471	8P MALE GOLD

various

1801	4822 242 73552	14,875 MHz
1802	4822 242 71508	6 MHz

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2792	4822 122 33496	100nF 10% 63V
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2799	4822 122 31965	220pF 5% 63V
2800	4822 124 40178	100μF 20% 10V
2801	4822 122 32442	10nF 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31727	470pF 5% 63V
2824	4822 122 32891	68nF 10% 63V
2825	4822 124 41525	100μF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47μF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2832	4822 124 41576	2,2μF 20% 50V
2833	4822 124 41576	2,2μF 20% 50V
2834	4822 124 40178	100μF 20% 10V
2836	4822 122 31766	120pF 5% 50V
2845	4822 124 40178	100μF 20% 10V
2846	4822 124 41554	220μF 20% 10V
2849	4822 124 21212	15μF 20% 35V
3795	4822 051 10392	3k9 2% 0,25W
3796	4822 051 10121	120Ω 2% 0,25W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 051 10121	120Ω 2% 0,25W
3800	4822 051 10103	10k 2% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10562	5k6 2% 0,25W
3808	4822 051 10103	10k 2% 0,25W
3809	4822 051 10272	2k7 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10271	270Ω 2% 0,25W
3814	4822 116 52204	1k 5% 0,5W
3815	4822 051 10152	1k5 2% 0,25W

Teletext module (continued)

3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10122	1k2 2% 0,25W
3829	4822 116 52211	150Ω 5% 0,5W
3830	4822 050 28209	82Ω 1% 0,6W
3831	4822 051 10681	680Ω 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10102	1k 2% 0,25W
3834	4822 051 10681	680Ω 2% 0,25W
3835	4822 051 10561	560Ω 2% 0,25W
3836	4822 051 10473	47k 2% 0,25W
3837	4822 051 10102	1k 2% 0,25W
3838	4822 051 10273	27k 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3900	4822 051 10008	0Ω 5% 0,25W
3901	4822 051 10008	0Ω 5% 0,25W
3904	4822 051 10008	0Ω 5% 0,25W
3906	4822 051 10008	0Ω 5% 0,25W
3908	4822 051 10008	0Ω 5% 0,25W
3910	4822 051 10008	0Ω 5% 0,25W
3913	4822 051 10008	0Ω 5% 0,25W
3914	4822 051 10008	0Ω 5% 0,25W
3915	4822 051 10008	0Ω 5% 0,25W
3917	4822 051 10008	0Ω 5% 0,25W
3918	4822 051 10008	0Ω 5% 0,25W
3919	4822 051 10008	0Ω 5% 0,25W
3920	4822 051 10008	0Ω 5% 0,25W
3921	4822 051 10008	0Ω 5% 0,25W
3922	4822 051 10008	0Ω 5% 0,25W

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5800	4822 156 20966	47 µH
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
5814	4822 157 53608	10µH
5816	4822 157 52224	15µH
5834	4822 157 53001	27µH 10%
5847	4822 157 51157	3,3µH

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6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 80906	LLZ-C7V5
6814	4822 130 80446	LL4148
6820	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1

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7800	4822 209 63857	PCF84C81/074
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	KM6264AL-15
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M3
7830	4822 209 63645	SAA5231/V7
7831	4822 130 40962	BC558A
7832	4822 130 40937	BC548B
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858

PIP module

	4822 265 40503	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 30828	5P male

Various parts

1155	4822 320 40051	DELAY LINE DL711
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 MHz

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2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 5% 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V

PIP module (continued)

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2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 100V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 121 51379	82nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 32893	100nF 80% 50V

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2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 116 52204	1k 5% 0,5W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	JUMPER
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 116 52204	1k 5% 0,5W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	jumper
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W
3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 116 52287	51k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

jumpers

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper

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5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5404	4822 156 20915	33µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

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6300	4822 130 80906	LLZ-C7V5

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7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 62477	TDA4554/V8
7126	4822 209 70019	TDA4510/V2/S8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8